

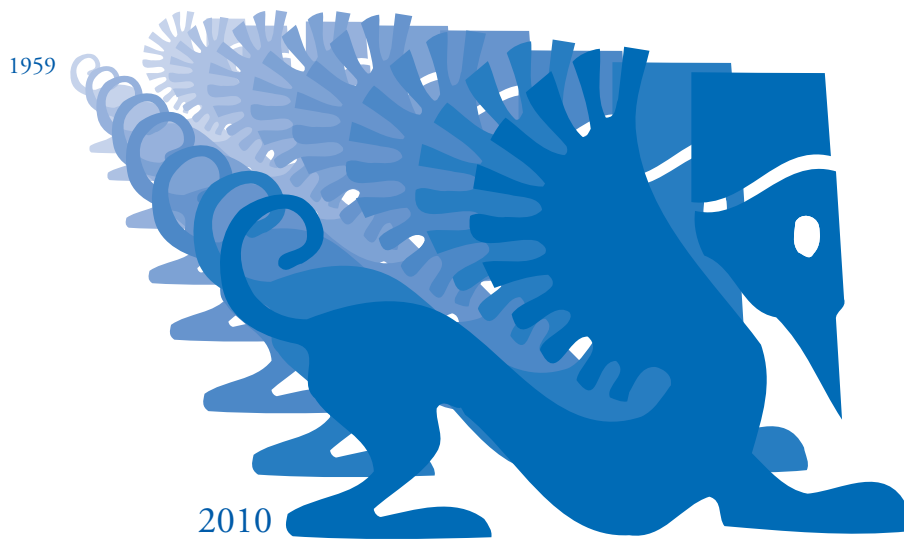
The LubriTec logo is rendered in a stylized, metallic gold font with a slight 3D effect. The letter 'i' in 'Lubri' has a small flame-like shape above it. The background of the entire cover is a deep blue with a central image of a water droplet hitting a surface, creating concentric ripples.

**LubriTec**

# **Synthetic Lubricant Cross Reference Charts**

Fifth Edition

A supplement to  
**OEM/Lube News**



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# **Synthetic Lubricant Cross Reference Chart Series Reference Guide**

**5<sup>th</sup> Edition**

**Lubrication Technologies, Inc.**  
Houston, TX 77082

[www.lubritecinc.com](http://www.lubritecinc.com)

**OEM/Lube News**

## **Introduction**

Welcome to the 5<sup>th</sup> edition of the Synthetic Lubricant Cross Reference Chart Series Reference Guide. We have developed this guide to assist lubricant marketers to be able to ascertain the equivalence of various synthetic lubricants on the worldwide market and to provide as much data on each of these products as feasibly possible within the context of this research study. All the information and data listed in this guide are based upon research, experience and data submission from participating lubricant companies. While we believe that, to the best of our knowledge, all this information is accurate and reliable, there are no implied guarantees or warranties, and such material should be used only as a guide to the users of this reference guide.

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**Synthetic Lubricant Cross Reference Chart Series Reference Book**  
**Fifth Edition**

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**A Supplement to:**



## Notes, Disclaimer and Copyright

1. The intention of this study was to list finished synthetic lubricants/coolants made from Group III, Group IV and/or Group V synthetic base oils.
2. All the listed lubricants are full synthetic; none are para-synthetic or semi-synthetic.
3. The API, ACEA and other industry classifications and OEM specifications shown for the engine oils were those listed in the respective companies' literature at the time this information was taken from such, may possibly be upgraded or changed at the time of viewing, are in some instances generalized due to differences for various SAE viscosity grades, and should be used for supplemental information only.
4. The API classifications and OEM specs shown in the API GL-5 Gear Lubricant chart were those listed in the respective companies' literature at the time this information was taken from such, may possibly be upgraded or changed at the time of viewing, are in some instances generalized due to differences for various SAE viscosity grades, and should be used for supplemental information only. All such oils (except for a few lesser known suppliers where data is not provided) are typically API GL-5, minimum API GL-4, except where noted.
5. The API classifications and OEM specs shown for the SAE 50 Manual Transmission Fluids were those listed in the respective companies' literature at the time this information was taken from such, may possibly be upgraded or changed at the time of viewing, and should be used for supplemental information only. Most of these oils (except for a few lesser known suppliers where data is not provided) are typically API CD and API GL-1 except where noted.
6. Many of the listed gear and transmission lubricants meet/exceed the Extended Warranty requirements for Eaton Roadranger (where noted) and Meritor (Rockwell) extended drain.
7. The majority of the compressor lubricants contained within the PAG and POE Compressor Lubricants chart are used in applications compressing process gas, natural gas, hydrogen and other polar gases.
8. A few of the listed lubricants in the charts may no longer be marketed, but were intentionally shown so that the user of these charts could determine a suitable replacement for a recently obsolete lubricant.
9. The contents of any of these charts does not imply that these are the only synthetic lubricants and basestocks available for blending synthetic lubricants. Upon requesting the latter from most basestock companies, these are the ones that submitted their data to us.
10. These charts are only intended as lists of similar synthetic lubricants. Lubrication Technologies, Inc. does not intend to represent that all the lubricants listed herein are necessarily of the same quality or offer the same level of performance in all instances. Quality and performance can vary.
11. Disclaimer: every reasonable effort was taken to insure that these charts are as accurate as possible; however, we will not be responsible any liability for any errors or inaccuracies. Lubrication Technologies, Inc. will not be held responsible for any decisions made as a result of the information provided above. These charts should be used only as a guide. Products should be verified with supplier.
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# Lubrication Technologies, Inc.

## Synthetic Lubricant Cross Reference Chart Series

### PAO Synthetic Compressor Lubricants

	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	Remarks
<b>Acculube</b>	ALS 32	ALS 46	ALS 68	ALS 100	ALS 150		
<b>Afton Chemical</b>	HiTEC 5032	HiTEC 5046	HiTEC 5068	HiTEC 5100			
<b>Agean Marine (Greece)</b>		Alfasynt PAO 46	Alfasynt PAO 68				
<b>Agip (Italy)</b>	Dicrea SX 32	Dicrea SX 46	Dicrea SX 68	Dicrea SX 100		Dicrea SX 220	
<b>Allegheny Petroleum</b>	Altra PAO 32	Altra PAO 46	Altra PAO 68	Altra PAO 100	Altra PAO 150	Altra PAO 220	
<b>Aluchem (Italy)</b>	Alusynt C 32	Alusynt C 46	Alusynt C 68	Alusynt C 100	Alusynt C 150		
<b>American Agip</b>	30321 SCO	30461 SCO	30681 SCO				(Synthetic Compressor Oil)
<b>American Lubricants</b>	Syn Comp P32	Syn Comp P46	Syn Comp P68	Syn Comp P100	Syn Comp P150	Syn Comp P220	
<b>American Synthol (Amerilube)</b>	A327C	A467C	A687C				
<b>AMSOIL</b>	PCH	PCI	PCJ	PCK	PCL		
<b>Anderol</b>	3032	3046 3057M	3068	3100	3150		3057M is ISO 46/68
	3432	3446	3468	3486			
	See Royal Lubricants also						
<b>Aral (Germany)</b>		Motanol SPA 46	Motanol SPA 68	Motanol SPA 100			
<b>Atlas Copco</b>		GA-8K					
<b>Behr Hella</b>			PAO 68 Plus UV				
<b>Benz</b>	Syncon 32	Syncon 46	Syncon 68	Syncon 100			
<b>BP</b>	Enersyn RC-S 32	Enersyn RC-S 46	Enersyn RC-S 68				Not Marketed in W. Hemisphere
<b>Busch</b>		R580		R570			
<b>BVA</b>	SHP-1-32	SHP-1-46	SHP-1-68	SHP-1-100	SHP-1-150	4601-220	
<b>C&amp;C Oil Co.</b>	Duration S.C. F. 32	Duration S.C. F. 46	Duration S.C. F. 68				(Synthetic Compressor Fluid)
<b>Cam2</b>	Synthetic C.O. 32	Synthetic C.O. 46	Synthetic C.O. 68	Synthetic C.O. 100			(Synthetic Compressor Oil)
<b>Camco</b>	41-32	41-46	41-68	41-100	41-150		
<b>Castrol</b>	SHL 32	SHL 46	SHL 68	SHL 100	SHL 150(+)	SHL 220(+)	+ grades deleted in 2006
		Aircol SR46					
<b>Cepsa (Spain)</b>		Compressor ARS 46	Compressor ARS 68	Compressor ARS 100			
<b>Champion (G-D)</b>	Rotorlub 8000	PAO 46					
<b>Chemtool</b>	CT Compressor 32	CT Compressor 46	CT Compressor 68	CT Compressor 100	CT Compressor 150		
<b>Chevron</b>	Tegra SCO 32	Tegra SCO 46	Tegra SCO 68	Tegra SCO 100	Tegra SCO 150	Tegra SCO HC 220	(Synthetic Compressor Oil)
<b>CITGO</b>	ComprGard PAO 32	ComprGard PAO 46	ComprGard PAO 68	ComprGard PAO 100	ComprGard PAO 150		(CompressorGard)
		ComprGard XL 46	ComprGard XL 68				High Performance
				ComprGard PAO H-100		ComprGard PAO H-220	for hydrogen & natural gas
<b>CLC Lubricants</b>	PAC 32	PAC 46	PAC 68	PAC 100	PAC 150		



	<i>ISO 32</i>	<i>ISO 46</i>	<i>ISO 68</i>	<i>ISO 100</i>	<i>ISO 150</i>	<i>ISO 220</i>	<i>Remarks</i>
<b>Cognis</b>	Emgard 3032	Emgard 3046	Emgard 3068	Emgard 3100			
<b>Compair</b>				Hydrovane 2000 CN300			
<b>Conoco</b>	Syncon R&O 32	Syncon R&O 46	Syncon R&O 68	Syncon R&O 100	Syncon R&O 150	Syncon R&O 220	Conoco/Phillips/76Lubr. "family"
<b>CPI Engineering</b>	4601-32	4601-46	4601-68	4601-100	4601-150	4601-220	
<b>Crescent Oil</b>	Duratherm 32	Duratherm 46	Duratherm 68	Duratherm 100	Duratherm 150		
<b>Curtis Toledo</b>	RS8000-32	RS8000-46, VO-414	RS8000-68				
<b>DA</b>	Synthetic Compressor Oil 32		Synthetic Compressor Oil 68				
<b>Davley Darmex</b>	RPL ACO 10	RPL ACO 15	RPL ACO 20	RPL ACO 30			
<b>David Weber</b>	#32 Syn-Comp	# 46 Syn-Comp	# 68 Syn-Comp	# 100 Syn-Comp	# 150 Syn-Comp		
<b>Direct Supply</b>		DS05-127462-005					
<b>Dow Corning</b>	MOLYKOTE L-1232	MOLYKOTE L-1246	MOLYKOTE L-1268	MOLYKOTE L-1210	MOLYKOTE L-1215*	MOLYKOTE L-1220*	*upon request
<b>Dubois</b>	Ultragard 100	Ultragard 200	Ultragard 300				
<b>Duratherm</b>	SHC 32	SHC 46	SHC 68				
<b>ENOC (UAE)</b>	Spiro PA 32	Spiro PA 46	Spiro PA 68	Spiro PA 100			
<b>eCompressor</b>	ECAPX 32		ECAPX 68				
<b>Elf</b>	see Total Lubricants USA						
<b>Emglo</b>				Synthetic Blue			
<b>Eurol (Netherlands)</b>	Full Synth. C.O. 32	Full Synth. C.O. 46	Full Synth. C.O. 68	Full Synth. C.O. 100			PAO (Full Synthetic Compressor Oil)
<b>Exxon</b>	Teresstic SHP 32	Teresstic SHP 46	Teresstic SHP 68	Teresstic SHP 100	Teresstic SHP 150		Obsolete, No Longer Marketed
<b>FS Elliott</b>	Corona Turbo Clear						
<b>Fuchs/Century/NFO</b>	Synshield PAO 32	Synshield PAO 46	Synshield PAO 68	Synshield PAO 100	Synshield PAO 150		
<b>Fuchs</b>		SYNAIR 46	SYNAIR 68	SYNAIR 100			
<b>Gardner Denver/Joy</b>		AEON 9000/9000SP			AEON PD		
<b>G-C Lubricants</b>			AEON TH				PAO/Ester
<b>Grimmer Schmidt</b>	Primus 32P	Primus 46P	Primus 68P				
<b>Gulf Oil International</b>	GSL-8						
<b>Gulf Atlantic</b>	Fidelity PA 32	Fidelity PA 46	Fidelity PA 68	Fidelity PA 100	PAO		
<b>H&amp;B Industries</b>	GAO 32 P	GAO 46 P	GAO 68 P	GAO 100 P	GOA 150 P		
<b>Huskey</b>	HB-1282 Syn-Lube 32	HB-1282 Syn-Lube 46		HB-1282 Syn-Lube 100			
<b>Hydrotex</b>	HI-LO 32	HI-LO 46	HI-LO 68	HI-LO 100	HI-LO 150	HI-LO 220	
<b>Industrial Oils Unlimited</b>	Syn-Air 32	Syn-Air 46	Syn-Air 68	Syn-Air 100			
<b>Industri-Lube</b>	Syncomp P-32	Syncomp P-46	Syncomp P-68	Syncomp P-100	Syncomp P-150		
<b>Ingersoll-Rand</b>	I-32P	I-46P					
<b>Integrated Solutions</b>			XHP-505	XL-T-30			
<b>Interlube</b>	Bio Lube Comp 32	Bio Lube Comp 46	Bio Lube Comp 68	Bio Lube Comp 100	Bio Lube Comp 150		
<b>JAX (Behnke)</b>	Cinncom SHC 32	Cinncom SHC 46	Cinncom SHC 68	Cinncom SHC 100			
<b>Kaeser</b>	Syncomp P-32	Syncomp P-46	Syncomp P-68	Syncomp P-100			
<b>Keystone</b>	Sigma 8000S-320	Sigma 8000S-460	Sigma 8000S-680				PAO/Ester
<b>Klubber</b>	Sigma S-320	Sigma S-460	Sigma S-680				
<b>Lee Helms</b>	see Total Lubricants USA						
<b>LeRoi</b>		Klubersynth DH4-46	Klubersynth DH4-68	Klubersynth DH4-100			
<b>LuBest</b>	SHF 32	SHF 46	SHF 68	SHF 100			
		SSL-46	SSL-68				
		SSL-46 Plus					
	Compressor 32	Compressor 46	Compressor 68	Compressor 100	Compressor 150		

	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	Remarks
<b>Lubricants USA</b>	see Total						
<b>Lubrax/Lubritene (S. Africa)</b>	RVS SYN 32	RVS SYN 46	RVS SYN 68	RVS SYN 100			
<b>Lubrication Engineers</b>	Monolec 9032	Monolec 9046	Monolec 9068	Monolec 9100	Monolec 9150		
<b>Lubricating Specialties</b>	Syn Air 32	Syn Air 46	Syn Air 68	Syn Air 100	Syn Air 150		
<b>LUBRIPLATE (Fiske)</b>	Syn Lube 32	Syn Lube 46	Syn Lube 68	Syn Lube 100	Syn Lube 150	Syn Lube 220	
<b>Mattei</b>				M5LX			
<b>Metalcote</b>	MC Compr 32	MC Compr 46	MC Compr 68	MC Compr 100	MC Compr 150		(MC Compressor)
<b>Metatron (Mexico)</b>	615-32	615-46	615-68	615-100	615-150	615-220	
<b>Mid-Town Petroleum</b>	Super Compressor 32	Super Compressor 46	Super Compressor 68	Super Compressor 100	Super Compressor 150		
<b>Min Jung Hong ()</b>	Max-Lube SRT 32	Max-Lube SRT 46					
<b>Mobil</b>	Rarus SHC 1024	Rarus SHC 1025	Rarus SHC 1026				
<b>Moroil Technologies</b>	Syncomp 32	Syncomp 46	Syncomp 68	Syncomp 100	Syncomp 150		
<b>Orelube</b>	H-32	H-46	H-68	H-100			
<b>Palatek (Sullivan)</b>		Palasyn 45					
<b>Performance Filtration (PFI)</b>	PAO S.C.L. 32 SL-32P	PAO S.C.L. 46 SL-46P	PAO S.C.L. 68 SL-68P	PAO S.C.L. 100 SL-100PR	PAO S.C.L. 150 SL-155PR, SL-175PR, SL-180PR (130 cSt AT 40C)		(Synthetic Compressor Lubr.)
<b>Petro-Canada</b>	SYNDURO SHB 32		SYNDURO SHB 68		SYNDURO SHB 150	SYNDURO SHB 220	
<b>Petronas (Malaysia)</b>		Pressol Syn RS 46	Pressol Syn RS 68	Pressol Syn RS 100	Pressol Syn RS 150		
<b>Petronomics</b>	51290	51292	51294	51296	51298		PAO Compressor Oil
	51300		51304	51306	51308		PAO Centrifugal Oil
	53100	53102	53104	53106	53108	53110	PAO RS Compressor Oil
	55320	55322	55324	55326	-----	55328	PAO RS Compressor Oil
	56104	56106	56108	56110	56112	56114	PAO Process Gas Comp Oil
	56136	56138	56140	56142	56144	56146	PAO Comp. & Circulating
	56160	56162	56164	56166	56168		PAO RS & Vane Comp. Oil
	56170	56172	56174	56176	56178		PAO Natural Gas Comp. Oil
	56180	56182	56184	56186	56188		PAO Recip. Comp. Oil
	56200	56202	56204	56206	56208		PAO RS & Blower Oil
	56216	56218	56220	56222	56224	56226	PAO Recip. & Crankcase
	56270	56272	56274	56276	56278	56280	PAO High & Low Temp
	56290	56292	56294	56296	56298	56300	PAO H-D High & Low Temp
<b>Phillips</b>	Syncon R&O 32	Syncon R&O 46	Syncon R&O 68	Syncon R&O 100	Syncon R&O 150	Syncon R&O 220	Conoco/Phillips/76Lubr. "family"
<b>PhyMet</b>	MPF 0223						
<b>PICO Chemical</b>	Syn AC 32	Syn AC 46	Syn AC 68	Syn AC 100	Syn AC 150		
<b>Primrose Oil</b>	Syn-O-Gen Synthetic	THC Fluid 788					PAO 32, 46, 68 Grades
<b>Prolab</b>	PCF-32	PCF-46	PCF-68	PCF-100	PCF-150	PCF-220	
<b>PSI</b>	PX 32	PX 46, PX20	PX 68	PX 100			
<b>Quincy</b>		Quinsyn 20, 46 QuinSyn Plus					PAO/POE
<b>Ravenol (Germany)</b>	Kompressorenoel SCR 32	46	68	100			For Screw Compressors
	Kompressorenoel VDL		68	100	150	220	For Recip Compressors
<b>RedLine</b>	Syn Polycomp 10W		Syn Polycomp 20W	Syn Polycomp 30W			PAO/POE
<b>Rosemead</b>	Betalube P-32	Betalube P-46	Betalube P-68	Betalube P-100			
<b>Royal Lubricants</b>	Royco 432	Royco 446	Royco 468	Royco 486	Royco 489		
<b>Royal Manufacturing</b>	Syncomp 32	Syncomp 46	Syncomp 68	Syncomp 100			
<b>Royal Purple</b>	Synfilm 32	Synfilm 46	Synfilm 68	Synfilm 100			

	<i>ISO 32</i>	<i>ISO 46</i>	<i>ISO 68</i>	<i>ISO 100</i>	<i>ISO 150</i>	<i>ISO 220</i>	<i>Remarks</i>
<b>Santovac</b>	Santotrac 6032P	Santotrac 6046P	Santotrac 6068P	Santotrac 6100P			PAO/POE
<b>Schaeffer</b>	158 MPSC 32	158 MPSC 46	158 MPSC 68	158 MPSC 100	158 MPSC 150	158 MPSC 220	(158 Moly Pure Syn Compressor)
<b>Select Lubricants</b>	SL10-32	SL10-46	SL10-68	SL10-100	SL10-150		
<b>Sentinel</b>	SCO 10	SCO 10W20	SCO 20	SCO 30	SCO 40		
<b>Sentinel Canada</b>	SenSyn PAO 10		SenSyn PAO 20	SenSyn PAO 30	SenSyn PAO 40		
<b>Shell</b>	Corena AS 32	Corena AS 46	Corena AS 68				previously Corena PAO
<b>Sinclair</b>	DynoTech AC 32	DynoTech AC 46	DynoTech AC 68	DynoTech AC 100	DynoTech AC 150		
<b>Southeast Oil &amp; Grease</b>	Alithicon SCL 32	Alithicon SCL 46	Alithicon SCL 68	Alithicon SCL 100	Alithicon SCL 150		(Synthetic Compressor Lubr.)
<b>Statoil (Norway)</b>	CompWay SX 32	CompWay SX 46	CompWay SX 68	CompWay 100			
<b>Sullair</b>	LLL-4-32	LLL-4-46	LLL-4-68	LLL-4-100	LLL-4-150		also LLL-
4-15 (ISO 15)							
<b>Summit (Kluber, N.A.)</b>	SH32	SH46	SH68	SH 100	SH 150		
<b>Sunoco (outside USA)</b>	Challenge AC 32	Challenge AC 46	Challenge AC 68	Challenge AC 100	Challenge AC 150		not marketed in USA
<b>Synflo</b>		Synflo 80XP, 100XP, 110					
<b>Tacbecon</b>	Syn 1032	Syn 1046	Syn 1068	Syn 1100	Syn 1150		
<b>Taurus Lubricants</b>	SynVis PAO Air 32	SynVis PAO Air 46	SynVis PAO Air 68	SynVis PAO Air 100	SynVis PAO Air 150		
<b>Tower Oil</b>	Syncom P 32	Syncom SCF	Syncom P 68				
<b>Texaco</b>	Cetus PAO 32	Cetus PAO 46	Cetus PAO 68	Cetus PAO 100			No Longer Marketed
<b>Thermal-Lube</b>	XL-7330/32	XL-7330/46	XL-7330/68	XL-7330/100	XL-7330/150		
	XL-7332/32	XL-7332/46	XL-7332/68	XL-7332/100	XL-7332/150		contains detergent
<b>Total</b>	Dacnis SH 32	Dacnis SH 46	Dacnis SH 68	Dacnis SH 100			
	Synolan 1000-32	Synolan 1000-46	Synolan 1000-68	Synolan 1000-100	Synolan 1000-150		USA only
<b>Tribology Tech-Lube</b>	TACO 32HT	TACO 46HT	TACO 68HT	TACO 100HT	TACO 150HT		
<b>Univ. Air (U-Slick)</b>	UA-3032	UA-3046	UA-3068	UA-3100	UA-3150		
<b>Ultrachem</b>	Chemlube 221	Chemlube 228	Chemlube 268	Chemlube 627	Chemlube 629	Chemlube 630	
<b>US Industrial Lubricants</b>	Dyna-Therm 32	Dyna-Therm 46	Dyna-Therm 68	Dyna-Therm 100	Dyna-Therm 150		
<b>Valvoline</b>	SynGard CP-32	SynGard CP-46	SynGard CP-68	SynGard CP-100			Discontinued, no longer market
<b>Whitmore</b>	Decathalon HC 32	Decathalon HC 46	Decathalon HC 68				
<b>Wunsch (Germany)</b>			Syn Verdichterol 68	Syn Verdichterol 100	Syn Verdichterol 150	Syn Verdichterol 220	(Syntholube Verdichterol)
<b>76 Lubricants</b>	Syncon R&O 32	Syncon R&O 46	Syncon R&O 68	Syncon R&O 100	Syncon R&O 150	Syncon R&O 220	Conoco/Phillips/76Lubr. "family"

# Lubrication Technologies, Inc.

## Synthetic Lubricant Cross Reference Chart Series

### Diester Synthetic Compressor Lubricants

	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	Remarks
<b>Acculube</b>	ALD 32	ALD 46	ALD 68	ALD 100	ALD 150		also ALD 100/150 (127 cSt at 40C)
<b>Agean Marine (Greece)</b>				Alfasynth DE 100			
<b>Air 2000</b>	-----	-----	DS68	DS100	DS150		
<b>Air Lube</b>		A4000C	A680C	A1000C	A1500C		
<b>Allegheny Petrolrum</b>	Altra Diester 32	Altra Diester 46	Altra Diester 68	Altra Diester 100	Altra Diester 150	Altra Diester 220	
<b>American Agip</b>	4951 SCO	4961 SCO	4971 SCO	5001 SCO	7501 SCO		(SCO=Synthetic Compressor Oil)
	Syn Comp 32	Syn Comp 46	Syn Comp 68	Syn Comp 100	Syn Comp 150		
<b>American Chemical Tech.</b>		Xtend 46					
<b>Amerilube (Amer. Synthol)</b>	A320C	A4000C	A680C	A1000C	A1500C		
<b>AMSOIL</b>				DCK	DCL		
<b>Anderol</b>	495	Sirocco (SEI) (ISO 32/46) 496	497	500, 525 & 555	750 & 755		Ester
			Rotary Coolant				
<b>A.O.S.</b>	992-A	-----	892-A	PQ882-B	-----		
<b>Aral (Germany)</b>				Mothanol SH 100			Ester
<b>Arpol</b>	Arpolube 2812		Arpolube 2862	Arpolube 2850			
<b>Atlas-Copco</b>	GA-OK	-----	-----	-----	-----		
<b>Bioblend</b>	Synlube COD32	Synlube COD46	Synlube COD68	Synlube COD100	Synlube COD150		
<b>BP</b>	-----	-----	-----	Enersyn RX 100	-----		marketed by marine group only
<b>Busch</b>		R-568					
<b>BVA</b>	SDE-41-32	SDE-41-46	SDE-41-68	SDE-41-100	SDE-41-150		
<b>Camco</b>	-----	-----	-----	410-100-D	410-150-D		
<b>Castrol</b>	Syncom 32*	Syncom 46*	Syncom 68	Syncom 100	Syncon 150*		*grades not in current US line not marketed in US
			Aircol SN 68	Aircol SN 100			
	Isolube 6764	Isolube 6765	Isolube 6766	Isolube 6767			
	890 Light	-----	890 Medium	890 Heavy	-----		(Tribol)
<b>Century/NFO</b>	Synshield D 32	Synshield D 46	Synshield D 68	Synshield D 100	Synshield D 150		
<b>Champion (G-D)</b>	-----	-----	-----	ChampLub Synthetic	-----		
<b>Chevron</b>	Syntholube 32	-----	Syntholube 68	Syntholube 100	Syntholube 150		
<b>CITGO</b>	CompGard DE 32	-----	CompGard DE 68	CompGard DE 100	CompGard DE 150		(CompressorGard DE)
<b>(Mystik brand)</b>	Synguard Syn Ind 32		Synguard Syn Ind 68	Synguard Syn Ind 100			
<b>Cognis</b>	Emgard 2032	Emgard 2046	Emgard 2068	Emgard 2100	Emgard 2150		
<b>CompAir</b>	CS 100	CS500XL	CS 200, CS5000XL	CS 300	CS 400		
<b>Conoco</b>	Syndustrial R&O 32	-----	Syndustrial R&O 68	Syndustrial R&O 100	Syndustrial R&O 150		
<b>CPI</b>	4100-32	-----	4100-68	4100-100	4100-150		
<b>David Weber</b>	32 Sun-Comp DS	46 Sun Comp DS	68 Sun-Comp DS	100 Sun-Comp DS	150 Sun Comp DS		

	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	Remarks
<b>Direct Supply</b>				DS05-39161534			
<b>Dow Corning</b>				MOLYKOTE L-4610	MOLYKOTE L-4611		ISO 32, 68 available upon request
<b>Dubois (Diversey)</b>	Summa Rotar	Summa 20	-----	Summa Recip	-----		
<b>Duratherm</b>	Diester 32	Diester 46	Diester 68	Diester 100	Diester 150		
<b>eCompressor</b>	ECASX 32, 32S	ECASX 46, 46S	ECASX 68		ECASX 150		
<b>Elf</b>	-----	Barelf CH 46	Barelf CH 68	Barelf CH 100	-----		marketed by Elf Marine only
<b>ENOC (UAE)</b>		Spiro PE 46	Spiro PE 68	Spiro PE 100			
<b>Exxon</b>	Synesstic 32	-----	Synesstic 68	3107, Synesstic 100	Synesstic 150		no longer marketed
<b>Forsythe</b>	Synpressor 32		Synpressor 68	Synpressor 100			
<b>Gardner Denver</b>	-----		AEON (GD)8000	AEON (GD) 5000	-----		
<b>Gulf Atlantic</b>	GAO 32 D	GAO 46 D	GAO 68 D	GAO 100 D	GAO 150 D		
<b>H&amp;B Industries</b>			HB-1283 Syn-Lube 68	HB-1283 Syn-Lube 100			
			HB-1284 Syn-Lube 68	HB-1284 Syn-Lube 100			
<b>Hatco</b>	Hatcol 2812	-----	Hatcol 2862	Hatcol 2850	-----		for rebranding
<b>Huskey</b>	S-810	S-815	S-820	S-830			
<b>Hydrotex</b>				852 Syn-Diester			
<b>Ind. Compr. Corp.</b>	Lube D32 ICC	Lube D46 ICC	Lube D68 ICC	Lube D100 ICC			
<b>Industrial Oils Unlimited</b>	Syncomp 32	Syncomp 46	Syncomp 68	Syncomp 100	Syncomp 150		
<b>Industri-Lube</b>	-----	-----	I-68D	I-100D	I-150D		
<b>Ingersoll-Rand</b>	-----	-----	SSR Coolant	XL-700	XL-740HT, T30 Select		also All Season Select
<b>Irving Oil</b>	Syn Compressor 32	Syn Compressor 46	Syn Compressor 68	Syn Compressor 100	Syn Compressor 150		
<b>JAX/Behnke</b>	Syncomp D-32	Syncomp D-46	Syncomp D-68	Syncomp D-100	-----		
<b>Kaeser</b>	325-R	466-R	687-R	Sigma 8000S-100	Sigma 8000S-150		
<b>Keystone</b>	KSL C. F. 32	KSL C.F. 46	KSL C.F. 68	KSL C.F. 100	KSL C.F. 150		(KSL=Keystone Synthetic Lubricant)
<b>Kluber</b>	Klubersynth DH2-32	-----	Klubersynth DH2-68	Klubersynth DH2-100	-----		
<b>Leahy-Wolf</b>	Synmaster D 32	Synmaster D 46	Synmaster D 68	Synmaster D 100	Synmaster D 150		
<b>Lubricants USA</b>	Synolan DCO 32	Synolan DCO 46	Synolan DCO 68	Synolan DCO 100	Synolan DCO 150		no longer marketed
	see Total						
<b>Lubricating Specialties</b>			Syn. Air C.O. 68	Syn. Air C.O. 100			(Synthetic Air Compressor Oil)
<b>LUBRIPLATE</b>	Synac 32	Synac 46	Synac 68	Synac 100	Synac 150	Synac 220	also Synac 320
<b>Mattei</b>				Rotoroil 8000F2			
<b>Mobil</b>	Rarus 824	-----	Rarus 826	Rarus 827	Rarus 829		
<b>Neo Synthetic</b>	SCL 150		SCL 300	SCL 500	SCL 700		
<b>Oils Unlimited</b>	Syncomp 32	Syncomp 46	Syncomp 68	Syncomp 100	Syncomp 150		
<b>Oil-Tech</b>		Comproil 220	Comproil 300	Comproil 500	Comproil 750		
<b>Orelube</b>			L-68	L-100			Ester
<b>Pennzoil</b>	Pennzcom S32	Pennzcom S46	Pennzcom S68, D	Pennzcom S100	Pennzcom 150		
<b>Performance Filter (PFI)</b>	SL-32D	SL-46D	SL-68D	SL-100D	SL-150D		
	SL-32D	SL-46D	SL-68D	SL-100D	SL-150D		contains advanced technology PIO additive
<b>Perkins Products</b>	Perlube SYN-32-AC	Perlube SYN-46-AC	Perlube SYN-68-AC	Perlube SYN-100AC	Perlube SYN-150-AC		
<b>Petronas</b>	Pressol Syn PR 32	Pressol Syn PR 46	Pressol Syn PR 68	Pressol Syn PR 100	Pressol Syn PR 150		
				Pressol Syn PR 35100	Pressol Syn PR 36150		
<b>Petronomics</b>	51280	51282	51284	51286	56706	56707	Diester Compressor Oil
	51320			51322	51324		Diester Process Gas Comp. Oil
				51480			Diester Ultra Comp. Oil
<b>Phillips</b>	Syndustrial R&O 32	-----	Syndustrial R&O 68	Syndustrial R&O 100	Syndustrial R&O 150		

	<i>ISO 32</i>	<i>ISO 46</i>	<i>ISO 68</i>	<i>ISO 100</i>	<i>ISO 150</i>	<i>ISO 220</i>	<i>Remarks</i>
<b>PSI</b>	SX 32 S 1500	SX 46	SX 68 S 2000	SX 100 S 3000	SX 150		
<b>Quincy</b>	Quincip 32	-----	Quincip 68	Quincip 100	-----		
<b>Ravenol (Germany)</b>				Kompress. DC 100	Kompress. DC 150		full name – Kompressoenoel DC
<b>Rosemead</b>	Synthoil 32		Synthoil 68	Synthoil 100	Synthoil 150		
<b>Royal Lubricants (Aderol)</b>	Royco 4032	-----	Royco 4068	Royco 4100	Royco 4150		
<b>Royal Manufacturing</b>	Syncomp 32	Syncomp 46	Syncomp 68	Syncomp 100			full name - Monarch Syncomp
<b>Royal Purple</b>	-----	-----	Synfilm Recip 68	Synfilm Recip 100	Synfilm Recip 150		
<b>Schramm</b>	-----	-----	-----	SSL 30	-----		
<b>Select Lubricants</b>	SL20-32	SL20-46	SL20-68	SL20-100	SL20-150		also SL20-125
<b>Sentinel</b>	SCO 32D	SCO 46D	SCO 68D	SCO 100D	SCO 150D		SCO=Synthetic Compressor Oil
<b>Sentinel Canada</b>	SenSyn DE 10		SenSyn DE 20	SenSyn DE 30	SenSyn DE 40		
<b>Shell</b>	-----	-----	Corena AP 68	Corena AP 100	Corena AP 150		previously Corena DE
<b>SLFi</b>	SL-32D SL-32D+	SL-46D SL-46D+	SL-68D SL-68D+	SL-100D SL-100D+	SL-150D SL-150D+		advanced system
<b>Stauffer</b>	SL-305	-----	SL-657	SL-1010	-----		
<b>Sullair</b>			24KTL				
<b>Summit (Kluber NA)</b>	DSL-32	DSL-46	DSL-68	DSL-100	DSL-150		
<b>Synflo</b>	Synflo 100	Synflo 70	-----	Synflo 90	-----		
<b>Tacbecon</b>	Syn 32	Syn 46	Syn 68	Syn 100 Airsint 510	Syn 150 Airsint 515		specialty gas process
<b>Taurus Lubricants</b>	Synvis EstAir 32	Synvis EstAir 46	Synvis EstAir 68	Synvis EstAir 100	Synvis EstAir 150		
<b>Texaco</b>	Cetus DE 32	-----	Cetus DE 68	Cetus DE 100	-----		no longer marketed
<b>TEXASTEAL</b>	Full Syn Diester Compressor Oil 32, 46		68	100	150		
<b>Thermal-Lube</b>	XL-7331/32	XL-7331/46	XL-7331/68	XL-7331/100	XL-7331/150		
<b>Total</b>		Dacnis SE 46	Dacnis SE 68	Dacnis SE 100			
	Dacnis SE NA 32		Dacnis SE NA 68	Dacnis SE NA 100	Dacnis SE NA		
<b>Tower Oil</b>	Syncom 5	-----	-----	Syncom 8	-----		
<b>TRC</b>	Syn Comp 32	-----	Syn Comp 68	Syn Comp 100	-----		
<b>Tribology Tech-Lube</b>	TACO 32D	TACO 46D	TACO 68D	TACO 100D	TACO 150D		
<b>Tri State Industrial</b>	Syn Com 32	Syn Com 46	Syn Com 68	Syn Com 100	Syn Com 150		
<b>Ultrachem</b>	Chemlube 215	Chemlube 229	Chemlube 230	Chemlube 501	Chemlube 751, 800	Chemlube 822	
<b>Univ. Air (U-Slick)</b>	UA-495	UA-496	UA-497	UA-500, UA-555	UA-750		
<b>Valvoline</b>	SynGard CE-32	-----	SynGard CE-68	SynGard CE-100	SynGard CE-150		Discontinued, no longer marketed
<b>Wallover</b>	WOCO DEC 32	-----	WOCO DEC 68	WOCO DEC 100	WOCO DEC 150		
<b>Whitmore</b>	-----	-----	Decathalon DE 68	Decathalon DE 100	-----		
<b>76 Lubricants</b>	Syndustrial R&O 32	-----	Syndustrial R&O 68	Syndustrial R&O 100	Syndustrial R&O 150		

# Lubrication Technologies, Inc.

## Synthetic Lubricant Cross Reference Chart Series

### PAG, POE, Other Synthetic Compressor Lubricants

(PAG, POE, Silicone, Propylene Glycol, Perfluorinated Polyether, Group III, etc)

	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	Other, Remarks
<b>Acculube</b>	AL32PG	Ultimate 46 AL Gold 46	Ultimate 68	ALPG-2 ALPG 100 ALGL-444 (79 cSt at 40C)	ALPG 150	ALGL 220	POE PAG/Ester Silicone PAG, for natural gas compressors PAG, for natural gas compressors PAG, for natural gas compressors
<b>Air 2000</b>	POLYG 32	POLYG 46					PAG
<b>Allegheny Petroleum</b>	Altra PG 32	Altra PG 46	Altra PG 68	Altra PG 100	Altra PG 150	Altra PG 220	PAG
<b>Aluchem (Italy)</b>	Alusynt CP 32	Alusynt CP 46					PAG/Ester
<b>American Chemical Technologies</b>		SynLube 146	SynLube 168				POE
<b>American Synthol</b>	Amerilube PGRS	Amerilube PGRI PGRQ, PGRS	Amerilube PGRI				
<b>Amsoil</b>	Sirocco SE1 (between ISO 32 and 46)						Ester
<b>Anderol</b>	PG Supreme 32 BDC 32	PG Supreme 46 BDC 46, Prem. Plus	PG Supreme 68 BDC 68	BDC 100 8100 S 100	BDC 150 8150	RCF 200 8220	Ester PG Supreme is PAG/Ester POE PAG, Process Gas Group III
<b>Busch</b>	S 32	S 46	S 68	S 100			Fomblin Perfluorinated Polyether
<b>BVA</b>	R-620 (viscosity unknown) SPOE-42-32 PGPE-1-32 PGNS-16-32 PGSW-15-32	SPOE-42-46 PGPE-1-46 PGNS-16-46 PGSW-15-46	SPOE-42-68 PGNS-16-68 PGSW-15-68	SPOE-42-100 PGNS-16-100 PGSW-15-100	SPOE-42-150 PGNS-16-150 PGSW-15-150 Synlube 140 (185 cSt)	SPOE-42-220 PGNS-16-220 PGSW-15-220	POE PAG/POE PAG, for Hydrocarbon Gas PAG, for Hydrocarbon Gas
<b>Caltex</b>			PAG42-68				PAG
<b>Camco</b>	PAG42-32						PAG/Ester
<b>Castrol</b>				Tribol 1450/100		Tribol 1450/220	for wet CO2 gas
<b>Cepsa (Spain)</b>	Compr LPG9-32	Compr LPG9-46	Compr LPG9-68	Compr LPG9-100			PAG (Compressor LPG 9)
<b>CITGO</b>	CompressorGard GE 32 & 46 (ISO 32 & 46)		CompressorGard PAG 80			CompressorGard PAG 220 Polyglycol C.L. 220	PAG/Ester PAG POE
	TN-600			CompressorGard IPG 100			Propylene Glycol for propane refrigeration

	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	Other, Remarks
<b>Cognis</b>	Breox 32	Breox 46	Breox 68				PAG/POE
						Breox CL 1300, 1400	PAG, ethylene compression
						Breox LPG9 (185 cSt)	PAG, petroleum, chemical, inert gas
					Breox SW 150	Breox SW 220	PAG, 320, 460 also
<b>Colorado Petrol</b>		Rugged Syn Compressor 46					Group III Base Oil
<b>Compair</b>	Complube 10						POE
<b>Conoco</b>		Syndustrial PAG 46	Syndustrial PAG 68	Syndustrial PAG 100			PAG
	Syndustrial Rotary 32/46						PAG/Ester
		PAG GCF XD1	PAG GCF XD3 (ISO 68/100)		PAG GCF XD5 (ISO 150/220)		PAG, obsolete
		RS 12000					
<b>Curtis Toledo</b>	DS05-250022-669						Polyglycol
<b>Direct Supply</b>	UCONALL 32	UCONALL 46	UCONALL 68				PAG, for centrifugal
<b>Dow Chemical</b>				UCON C. L. PE-300, 302, 320L (all 275 cSt at 40C)			PAG, for ethylene hypercompressor
				UCON C.L. R-4 (74 cSt at 40C)			PAG, for reciprocating hydrogen compr.
					UCON C.L. R-1 (195 cSt at 40C)		PAG, for reciprocating nat. gas compressor
					UCON C.L. RSC-155 (135 cSt at 40C)		PAG, for natural gas rotary screw compr.
	UCON Lubr LB-170-X						PAG, for helium rotary screw compressor
<b>Dow Corning</b>	Molycote L-3232	Molycote L-3246					PAG/POE
		Molykote L-4646					POE
				FS-1265			Fluorosilicone
<b>Dubois</b>		Summa Glycol					PAG
<b>Duratherm</b>	Glycol 32	Glycol 46					PAG
<b>eCompressor</b>		PG3200 PG2000 (52 cSt)					PAG/Ester
<b>ENOC (UAE)</b>					Spiro PG 140		
<b>Esso (Imperial)</b>					Exxcolub SRS 150	Exxcolub SLG 190	PAG
<b>Exxon</b>	Glycolube 32	Glycolube 46	Glycolube 68	ExxcolubSLG100	Glycolube 150		PAG, no longer marketed
				Exxcolub SRS 100	Exxcolub SRS 150		PAG, no longer marketed
<b>FS Elliott</b>	Corona Turbo Blue						Group III
<b>Fuchs</b>	Synshield 32	Synshield 46	Synshield 68	Synshield 100	Synshield 150		POE
<b>Gardner-Denver</b>		AEON Bio					POE
		AEON PG					PAG/Ester
		AEON 2000, AEON 4000					Group III
<b>GB Lubricants (UK)</b>		Unicool S					PAG/POE
<b>G-C Lubricants</b>		Primus 46E					POE
<b>Gulf Oil Ltd. (India)</b>					Synth Compr. 150	Synth Compr. 220	PAG
<b>Industri-Lube</b>	I-PGS	I-PGI					PAG
	I-32PEP	I-46PEP I-Super,					POE
<b>Ingersoll-Rand</b>					XL Nova		PAG
		SSR Ultra Coolant					PAG/Ester
	SSR Ultra Plus, OCV Zero						POE
	Techtrol Gold						70% Polypropylene/30% ester
<b>Kluber</b>	Klubersynth DH6-32						PAG
<b>Leroi</b>		SSL-46 Plus	SSL-68 Plus				POE
<b>Lubemaster</b>	Syncom 10W	Syncom 20	Syncom 20	Syncom 30			POE



	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	Other, Remarks
<b>Lubricants USA</b>	See Total Synolan PG 32		Synolan PG 68	Polyglycol 100	Polyglycol 150	Polyglycol 220	PAG, no longer marketed POE, no longer marketed
<b>Lubrication Engrs</b>	Multitec 6801	Synolan POE 46	Synolan POE 68	Multitec 6804	Multitec 6805		Group III
<b>LUBRIPLATE</b>	SynXtreme 32	Multitec 6802	Multitec 6803	SynXtreme 68			POE
	Syncool 32	SynXtreme 46					PAG/Ester
<b>Mainlube (Australia)</b>					114 Oil-150	114 Oil-220	PAG
<b>Mobil</b>			Glygoyle 11		Glygoyle 22		PAG
	Zerice 32	Zerice 46	Zerice 68	Zerice 100			AB, Zerice 15 also
<b>Morris (UK)</b>		Air Force PG 46					PAG/Ester
<b>Nyco Americas</b>	NYCOLUBE 3030	NYCOLUBE 3040	NYCOLUBE 3050	NYCOLUBE 3060			POE
<b>OptiDyn</b>		Optisil (39 cSt at 40C)					Silicone
	OP-SPR	OP-QPR	OP-IPR (50 cSt at 40C)				PAG Replacement
<b>Palatek</b>	Pallube 32						PAG/Ester
	AFX 32						POE
<b>Pennzoil</b>	Pennzcom POE 32		Pennzcom POE 68	Pennzcom POE 100			POE
<b>Performance Filters (PFI)</b>	SL-32GR	Supreme SL-46GR					POE
<b>Petro-Canada</b>		Compro Synthetic					PAG/POE
	Compro 32		Compro 68	Compro 100	Compro 150		Group III
	Compro XL S 32	Compro XL S 46	Compro XL S 68	Compro XL S 100	Compro XL S 150		Group III
			SPX 7068	SPX 7000 (129 cSt)	SPX 5000		PAG, For natural gas compression
<b>Petronas (Malaysia)</b>	Pressol Syn IR32	Pressol Syn IR46	Pressol Syn IR68				PAG
<b>Petronomics</b>	51346 (viscosity unknown)						PAO Natural Gas Compressor Oil
	51380 (viscosity unknown)					51355	PAG Natural Gas Compressor Oil
			51392	51394	51396	51398	PAG Natural Gas Compressor Oil
		51472	51470				PAG Gas Compressor Oil
	53050	53052					PAG/Ester Compressor Oil
			53054	53056	53058		POE Rotary Screw Compressor Oil
	56040	56042	56044	56046	56048		POE Recip & Rotary Screw Compressor Oil
	56050	56052	56054	56056	56058		POE Air Compressor Cylinder Oil
	56060	56062	56064	56066	56068		POE Recip & Rotary Screw Compressor Oil
	56480	56482	56484	56486	56488		POE Recip & RS Compressor&Bearing Oil
	56490	56492	56494	56496	56498		PAG Rotary Screw & Vane Compressor Oil
	56500	56502	56504	56506	56508	56510	Silicone Compressor Oil
	56520	56522	56524	56526	56528	56530	Silicone Gas & Ro. Screw Compressor Oil
		56640	56644			56532	Silicone Compressor Oil
	56670 (viscosity unknown), 56680 (viscosity unknown)						POE
							PAG Natural Gas Compressor Oil
<b>Phillips</b>		Syndustrial PAG 46	Syndustrial PAG 68	Syndustrial PAG 100			PAG
	Syndustrial Rotary 32/46						PAG/Ester
	Syndustrial G 5W-20						PAG, obsolete
<b>Prista (Bulgaria)</b>		PAG-46					PAG/POE Mixture

	<i>ISO 32</i>	<i>ISO 46</i>	<i>ISO 68</i>	<i>ISO 100</i>	<i>ISO 150</i>	<i>ISO 220</i>	<i>Other, Remarks</i>
<b>PRO-CHEM-CO</b>				PRO-COMPRESSOR 100			POE
<b>PSI</b>	PG 3200						PAG
<b>QALCO (Qatar)</b>				Syntech AA	Syntech BB		PAG
<b>Quincy</b>		Quin-Syn PG Quin-Syn HP	Quin-Syn XP				PAG POE
<b>Raloy (Mexico)</b>	PG Compressor (viscosities not specified)						PAG
<b>Ravenol (Germany)</b>		Kompress. PAG 46 Kompress. POE 46	Kompress. PAG 68 Kompress. POE 68	Kompress. PAG 100 Kompress. POE 100	Kompress. PAG 150 Kompress. POE 150	Kompress. PAG 220 Kompress. POE 220	PAG, full name – Kompressorenoel POE, full name – Kompressorenoel
<b>Red Line</b>	Syn Polycomp 10W		Syn Polycomp 20W	Syn Polycomp 30W			PAO/POE
<b>Royal</b>	Royco 832		Royco 868	Royco 886	Royco 889		PAG
<b>Santovac</b>	Santotrac 6032P	Santotrac 6046P	Santotrac 6068P	Santotrac 6100P			PAO/POE
<b>Select Lubricants</b>		SL24-046					Silicone
<b>Sentinal</b>	SULCO 32 SCO 105	SULCO 46 SCO 205	SULCO 68 SCO 305	SULCO 100 SCO 405	SCO 505	SCO 605	POE
<b>Sentinel Canada</b>	SenSyn RCF9 (viscosity unknown)	SenSyn CPG 10/20					PAG PAG/Ester
<b>Shell</b>	SenSyn PX2, PX4, PX6 (viscosities unknown) Corena PGE 32		Corena PGE 68				POE PAG/Ester
<b>SLFi</b>	Series G SIL (ISO 32/46)		680C	Madrela GP 100 1000C	Madrela GP 150 1500C	Madrela GP 220	PAG PAG Silicone
<b>Statoil (Norway)</b>	CP-1505- CP-1507- CP-1515-		68	100 100 100			PAG PAG PAG, for sour gas
<b>Sullair</b>	Sullube 32	Sullube 60					Polyglycol PAG/Pentaerythritol Ester
<b>Summit (Kluber NA)</b>	24KT Supra 32	Supra Coolant PGS 46	PGS 68	PGS100, PGS-2 NGL-444	PGS150 NGL-777	NGL-888	Semiorganic; Silicone PAG PAG, for Natural Gas PAG, for Natural Gas
<b>Syn-flo</b>		Ultima AU-46 Ultima 7.1 Super 70GC	Ultima 68				POE Silicone PAO/Group III POE PAG
<b>Texaco</b>	60GC		Cetus PGM 68 Cetus PGE 68	Cetus PGM 100	Cetus PGM 150		Water Soluble PAG, No longer marketed Polyglycol/Ester, No longer marketed
<b>Thermal-Lube</b>	Cetus PGE 32 XL-7336/32 XL-7338/032	XL-7336/46 XL-7338/046	XL-7338/068	XL-7338/100	XL-7338/150		PAG POE
<b>Total</b>	Dacnis PG 32		Dacnis PG 68				PAG POE
<b>Tribology Tech-Lube</b>	Ultima Coolant 32	Dacnis POE 46 SCN Compressor 46 Ultima Coolant 46	Ultima Coolant 68	Ultima Coolant 100	Ultima Coolant 150		POE Silicone PAG/POE

	<i>ISO 32</i>	<i>ISO 46</i>	<i>ISO 68</i>	<i>ISO 100</i>	<i>ISO 150</i>	<i>ISO 220</i>	<i>Other, Remarks</i>
<b>Ultrachem</b>	Coolant 32, Coolant 32 PE (both ISO 32)	Ultrachem Coolant, Ultrachem Coolant PE (both ISO 46)					PAG/POE PAG/POE POE/PAG PAG for polar gases
	Ultra Gold		PGWI 68	PGWI 100	PGWI 150		PAG
<b>Ultrachem (cont)</b>			PGWS 68	PGWS 100	PGWS 150	PGWS 220	POE POE Silicone Group III Insoluble
	Chemlube 932	Chemlube 946 Chemlube Plus10	Chemlube 968 Chemlube Plus 68	Chemlube 9100			PAG POE POE Silicone Group III Insoluble
	Platinum BTG 32-S	46-S	68-S	100-S	150-S		Insoluble
<b>Union Carbide</b>	Ucon LB-140XY	Ucon LB-170XY	Ucon LB-300XY				Insoluble
	Ucon RSC 32	Ucon RSC 46	Ucon RSC 68		Ucon RSC 150	RSC 220	Soluble, also RSC 460 & 680
	Uconall 32	Uconall 46	Uconall 68		Uconall 150		PAG
<b>Univ. Air (U-Slick)</b>	UA-PG 32	UA-PG 46	UA-PG 68				PAG
<b>Vilter</b>			HC 68	HC 100			Insoluble PAG
<b>Whitmores</b>	Decathalon PG 32	Decathalon PG 46	Decathalon PG 68	Decathalon PG 100	Decathalon PG 150		PAG
<b>Yale Selco</b>					Selco SF-560 (186 cSt)		PAG
<b>76 Lubricants</b>		Syndustrial PAG 46	Syndustrial PAG 68	Syndustrial PAG 100			PAG
	Syndustrial Rotary 32/46						PAG/Ester

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Lubrication Technologies, Inc.  
Houston, TX 77082  
www.lubritecinc.com

# Lubrication Technologies, Inc.

## Synthetic Lubricant Cross Reference Chart Series

### Synthetic Refrigeration Compressor Lubricants

	Series Name	ISO 10	ISO 15	ISO 22	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	Remarks	
<b>Acculube</b>	ARL12 Series				32		68						AB	
	ARL Series				100	150	200	300 (85 cSt at 40C)					PAO, H1 Food Grade	
	ALA Series				32	46	68	100					PAO/AB	
	ALGI Series						68	100	150				Insoluble PAG	
	ALR-134a Series				32	46	68	100					for R-134a	
<b>Addinol (Germany)</b>	Refrigerator Oil XKS					46	68	100						
<b>Agean Marine (Greece)</b>	Alfaref S 68						(68)						AB	
	Alfaref R 68						(68)						POE	
<b>Agip (Italy)</b>	SINTFLUID P													
<b>Aluchem (Italy)</b>	Alusynt CF-P				32	46	68	100	150					
<b>Amalie</b>	Synthetic Refrigerator/Compressor Oil				32	46	68	100					PAO	
<b>American Synthol</b>	Amerilube RA5				32	46	68	100					POE for R-134a	
	Amerilube RA5D							(100)					has ultra violet dye	
	Amerilube RB5 series				32	46	68	100	150				POE	
	Amerilube ABR series				32		68	100					for CFC, HCFC	
<b>Apollo America</b>	renamed Idemitsu Lubricants America, see next page													
<b>BP Marine</b>	Enersyn LPS						46	68	100				AB	
	Enersyn LPS-PO										220		PAO	
	Enersyn MP-S				32	46	68	100	170		220		POE	
<b>BVA</b>	RPAG					46	68	100	125	150			PAG for auto. A/C	
	ALKYL Series				150	200ca	300	500					AB for CFC& HCFC	
	SHP-46	10	15	22	32	46	68	100	150	220	320	460	PAO	
	PGNS-16			22	32	46	68	100	150	220	320	460	PAG Hydrocarbon	
	RPOE	10	15	22	32	46	68	100	150	220	320		POE	
	PRO CAP PAG					46		100	150				PAG, Automotive	
	PRO GLO					46		100	150				PAG w/UV dye, auto	
	Solest*				LT-32	46	68	120	170		370		POE	
					32TC, 32LC, 31HE			(all ISO 32)						POE
		Solest* EP series												POE with EP
		Solest* NA series												POE with no additive
<b>Camco</b>	4619-						68						PAO	
	Solest *				LT-32		68	120	150	220			POE	
	Alkyl				150		300	500					AB	
	PAG-16 (formerly 1516)				32	46							PAG for Propane, HC	
<b>Castrol</b>	Premium Ester Lubricant												POE	
	PAG-					46		100	150				PAG	
<b>Chem-Verse (India)</b>	Synol						RL-68						Ester	
<b>Chevron (Marine)</b>	Capella HFC						55 (55 cSt)						POE	

	Series Name	ISO 10	ISO 15	ISO 22	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	Remarks
<b>CITGO</b>	Clarion Synthetic Refrigeration Fluid						68						PAO, H1
	Proeco AB				32		68						AB
	Proeco S	105	155	225	325	465	685						POE
	Proeco	10M	15M	22M	32M	46M	68M	100C	170C	220C			POE
	Breox RFL-X		16-X	22-X	32-X	46-X	68-X	100-X	150-X				PAG, auto a/c,R-134a
<b>Conoco</b>	Breox MAC					46		100	150				PAG, auto a/c,R-134a
	Syncon Refrigeration Oil						68						PAO
<b>CPC (Taiwan)</b>	Ozone Friendly Refrigeration Oil 68												POE
<b>CPI</b>	CP-4600	(ISO Grades 5 to 1000+)											
	CP-1516							100	150	220			PAO, for CFC
	CP-4214							100	150	220	320		PAG, for CFC
	RPAG					46		100	150				Ester, for CFC
	Solest*				LT-32	46	68	120	150	220	370		for R-134a
<b>Dow</b>	UCON Refrigeration Lubricant						488 (52 cSt at 40C), 993 (61 cSt at 40C)						PAG
	UCON Refrigeration Lubricant						244	897 (132 cSt at 40C)					PAG
	UCON Refrigeration Lubricant						FBC1 (80 cSt at 40C)						PAG
	UCON Universal Refrigeration Lubricant						100 (62 cSt at 40C)						PAG
	Cryogen PE					46	68						POE
<b>ENOC (UAE)</b>	Zero-Pol S					----	68	----	----	220	----		PAO, no longer mrkt
					6		2A, 7						AB
<b>Frick</b>							11	4					PAO
							13						POE
<b>FS Elliott</b>	Corona Turbo Ice (viscosity unknown)												
<b>Fuchs (Germany)</b>	Reniso S/SP				32	46	68	100	150	220			AB
	Reniso Triton SE/SEZ												Ester
	Reniso Synth 68						(68)						PAO
	Reniso PG 68						(68)						PAG
	Reniso PAG					46		100					PAG, auto, R-134a
	Reniso C series												for use w/natural CO2
	Refrig. Oil Low Temp						(68)						AB
<b>Fuel &amp; Marine Mktg. Gulf Oil Int'l (India)</b>	Eskimo PE				32	46	68	100					for R-134a
	Eskimo AB				32	46	68	100					AB
	Behr Hella PAO-Oil 68 Plus UV						(68)						PAO
<b>(Behr) Hella</b>	Daphne Hermetic PAG						PS, FD46XG	PR	G25X				PAG
	Daphne Oil CF		15	22	32	46	56	100					PAG
<b>Idemitsu Kosan (Japan)</b>	Daphne Hermetic PAG						PS, FD46XG	PR	G25X				PAG
	Syfrigo												
<b>Igol (France)</b>	Synthetic Refrigeration Oil				150		300						
<b>Interlube</b>	Syntec						68						
<b>JAX/Behnke</b>	KAL-Superlube			R22	R32	R46							PAO
<b>KAL &amp; C (Korea)</b>	see Total												
	AB Refrigeration				32		68	100					AB, no longer market
	Synolan LP Refrigeration Oil						(68)						no longer market
<b>LUBRIPLATE</b>	Polyglycol 150								(150)				PAG, no longer market
	RCO						68-FG						NSF H-1 Food Grade
<b>Magna (Hong Kong)</b>	Omega 615					46		100					PAO
<b>Maxol (Ireland)</b>	Refridge S				32	46	68	100					AB

	Series Name	ISO 10	ISO 15	ISO 22	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	Remarks
<b>Mobil</b>	EAL Arctic		15	22	32	46	68	100	-----				POE
	Gargoyle Arctic SHC 200 series				224		226	228		230	234 (400 cSt)		PAO
	Gargoyle Arctic SHC 400 series					-----	426	427	-----				AB
	Zerice S		15		32	46	68	100	-----				AB
<b>Morris (UK)</b>	Arcato AC					46						PAG	
<b>Nippon Oil (Japan)</b>	Ze-GLES RB series												POE
	Ze-GLES WR series												Ester for R-134a
<b>Nyco</b>	Nycolube			7020	7030	7040	7050	7060	7070	7080			POE
<b>Oberon</b>	F226												
<b>Oleon</b>	Radialube RL		7320	7321	7322	7323	7324	7325					POE
<b>OptiDyn</b>	OPREF				XLT	LT	68						
<b>Pacific Fluids LLC</b>	SynCool AB				32		68						AB
<b>PDVSA (Venezuela)</b>	Frilub Sintetico												AB/PAO
<b>Performance Filters (PFI)</b>					R-32		R-68						for CFC, HCFC
	SL-R717AC-68						(68)						for Ammonia
	RB5-				32	46	68	100	150	220	320		POE
<b>Petro-Canada</b>	Reflo Synthetic 68A						(68)						PAO
<b>Petronas (Malaysia)</b>	Pressol Syn RA				32	46	68	100					AB
	Pressol Syn RH					46	68	100	150				for R-134a
<b>Petronomics</b>	PAO Refrigeration Oil			-----	51330	51332	51334	51336	51338	51340			PAO
	POE Refrigeration Oil			-----	53022	53024	53026	53028	53039				POE
	Alkylbenzene Refrigeration Oil								53040				AB
	PAO Screw Ammonia Comp. Oil						54046	54048				53042	PAO
	POE Refrigeration Oil							55174	55176	55178			POE
	Silicone Gas Comp. Refrigeration Oil				56560	56562	56564	56566	56568	56570	56572		
<b>Phillips</b>	PAO/Dialkybenzene Ref. Oil				56620	56622	56624	56626					PAO/AB
<b>Raloy (Mexico)</b>	Syncon Refrigeration Oil						68						PAO
<b>Ravenol (Germany)</b>	Uni Temp												
	Kaltenmeschinenol S					46	68	100					AB
	Kaltenmeschinenol POE						46	68	100				POE
	Kaltenmeschinenol PAO				32		68	100		220			PAO
<b>Royal Lubricants</b>	Kaltenmeschinenol PAG					46	68	100					PAG
	Royco			-----	2032	2046	2068	2100	2150	-----			AB
<b>Royal Purple</b>	Royco	2210	-----	2222	2232	2246	2268	2200	-----				POE
<b>RTI</b>	Uni-Temp			-----	150	-----	300	500	-----				
<b>Schaeffer</b>	Auto 1000												POE/PAO
<b>Sentinel</b>	158RF				32	46	68	100					PAO
<b>Sentinel Canada</b>	SCO REF				32	46	68	100	150	220			PAO
<b>Shrieve Chemical</b>	SenSyn RCF9												PAG
<b>Nu-Calgon</b>	Zerol				150	200TD	300						AB
	Zerol Ester												POE
<b>Sinopec (China)</b>	Great Wall 4521				32	46	68						PAO, for CFC, HCFC
	Great Wall 4523				N32	N46	N68	N100					AB
<b>SLFi</b>	SL-R717AC-					XLT	68						
<b>Statoil (Norway)</b>	RB5-				32	46	68	100	150	220	320		POE
	FridgeWay S					46	68	100					AB
<b>(Japan) Sun Oil</b>	Suniso	SL-10S	SL-15S	SL-22S	SL-32S								POE
<b>Sunoco Belgium</b>	Suniso SL			22	32	46	68	100					POE
	Sunice							PB 100					PAG, auto, R-134a

	Series Name	ISO 10	ISO 15	ISO 22	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	Remarks
<b>Sunoco UK</b>	Sunice							PB 100					PAG
<b>Summit (Kluber N.A.)</b>				-----	R-100	R-150	R-200	R-300	-----	R-500	-----	R-600	PAO, Kosher
<b>Summit</b>				-----	RAB 32	----	RAB 68	----					AB
				-----	RPA 32	RPA 46	RPA 68	RPA 100	-----				PAO/AB
				-----	RPE 32	RPE 46	RPE 68	RPE 100	-----				POE
							PGI 68	PGI 100	PGI 150				PAG
						RPS 52		RPS 100					PAG
<b>Texaco</b>	Capella AB				150		300	----					AB, obsolete
	Capella HFC	-----	22		32, 32 NA**		68, 68 NA** Auto	-----	220 NA**	-----			POE, obsolete
	Capella HFC Auto						(100)						POE, obsolete
	Capella PPG					-----	68	100	150	-----			PPG, obsolete
<b>Total</b>	HFC Refrigeration				32		68						POE
	Planetelf ACD		22		32		68		150				POE, for HFC
	Lunaria SH					46	68						PAO
	Lunaria SK					55		100	150				AB
	Lunaria EFL					46	68	100					PAG
	Refrigeration 3												Hydrocarbon
<b>Tribology Tech-Lube</b>	Iceol		22	32	46	68	100						POE
<b>TSI, Inc. (Tire Seal)</b>	Supercool PAG				46		100	150					PAG
	Supercool PAG				46D		100D	150D					PAG, with dye
<b>Ultrachem</b>	Ultra-Ice				46		100	150					PAG, Automotive
<b>Veloil (Thailand)</b>	Indpro Polar				46		68	100					AB
<b>Vilter</b>							HCL 68						PAO
							B 68	B 120					POE
<b>Yale Selco (India)</b>	Selco SF-300				32	46	68	100					PAO
	Selco SF-590	10		23	46								POE, for HFC,R-134a
<b>76 Lubricants</b>	Syncon Refrigeration Oil						68						PAO

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# Lubrication Technologies, Inc.

## Synthetic Lubricant Cross Reference Chart Series

### Synthetic H1 Food Grade Compressor Lubricants

	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	Remarks
<b>Acculube Air2000</b>	ALFG 32	ALFG 46		ALFG 100	ALFG 150		PAO
<b>Aluchem (Italy)</b>	Alusynt FGC 32	Alusynt FGC 46	Alusynt FGC 68	Alusynt FGC 100	Alusynt FGC 150		
<b>Amerilube (Amer. Synthol)</b>		SF200FG					PAO
	SFG 100	SFG 200	SFG 250	SFG 300	SFG 400		
<b>Anderol</b>	FGC-10	FGC-20	FGC-30		FGC-40	FGC-50	PAO, also FGC-5, FGC-15
	FGC-32	FGC-46	FGC-68	FGC-100	FGC-150		PAO
	FG XL 32	FG XL 46	FG XL 68	FG XL 100	FG XL 150		PAO, Kosher , also FG XL 15
<b>Anglomoil (Australia)</b>		SFG 46	SFG 68				PAO
<b>Aral (Germany)</b>		Eural Comp 46	Eural Comp 68	Eural Comp 100			
	Alusynt FGC 32	Alusynt FGC 46	Alusynt FGC 68	Alusynt FGC 100	Alusynt FGC 150		
<b>Atlas-Copco</b>	GA-FG						
<b>Avatar</b>	ProTech 32 CS	ProTech 46 CS	ProTech 68 CS	ProTech 100 CS			
<b>Bel-Ray</b>	SC1 32	SC1 46	SC1 68	SC1 115			
<b>Bremer &amp; Leguil (Germany)</b>	Rivolta FL (several viscosities, specific grades unknown)						PAO
<b>BVA</b>	SHP-6-32-F	SHP-6-46-F	SHP-6-68-F	SHP-6-100-F	SHP-6-150-F	SHP-6-220-F	PAO
	SHP-24-32-F	SHP-24-46-F	SHP-24-68-F	SHP-24-100-F	SHP-24-150-F	SHP-24-220-F	PAO
				PGNS-18-100-F	PGNS-18-150-F	PGNS-18-220-F	PAG, HC & process applications
<b>Camco</b>	FMO 32	FMO 46	FMO 68	FMO 100	FMO 150	FMO 2210	PAO
					FMO-8-150	FMO-8-220	PAO
<b>Cargo (Sweden)</b>		FG Syn Comp Oil 46		FG Syn Comp Oil 100			
<b>Castrol</b>	OPTILEB® V 32	OPTILEB® V 46	OPTILEB® V 68	OPTILEB® V 100			PAO
<b>Champion (G-D)</b>	Rotorlub 4000FG		Food Grade PAO				
<b>Chevron</b>		Syn Compressor FM					PAO
<b>CITGO</b>	Clarion CG FG 32	Clarion CG FG 46	Clarion CG FG 68				PAO, (CG=CompressorGard)
<b>Compair</b>		SSL-35F	CSX20				
<b>CPI</b>	4600-32F	4600-46F	4600-68F	4600-100F	4600-150F		
		4624-46F	4624-68F	4624-100F		4624-220F	
		RF4000FG, VO-416					
<b>Curtis</b>							
<b>Dow Corning</b>	Molycote L-1232FG	Molycote L-1246FG	Molycote L-1268FG	Molycote L-1210FG	Molycote L-1215FG	Molycote L-1220FG	PAO
<b>DuPont</b>	Krytox FG 40, 45, 50	(viscosities unknown)					PFPE
<b>eCompressor</b>	ECAFG 32	ECAFG 46					PAO
<b>Fuchs</b>	Geralyn SF 32	Geralyn SF 46	Geralyn SF 68	Geralyn SF 100	Geralyn SF 150	Geralyn SF 220	PAO
<b>Frick</b>			14				



	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	Remarks
<b>Gardner-Denver</b>	AEON 6000FG	AC-FG PAO					
<b>Gulf Atlantic</b>			GAO-F 68				
<b>Habot (So. Africa)</b>	H-7611	H-7622	H-7633	H-7644	H-7655		
<b>HUSKEY</b>	HI-LO 32	HI-LO 46	HI-LO 68	HI-LO 100	HI-LO 150	HI-LO 220	PAO
<b>Industrial Oils Unlimited</b>			Synthetic F/G CO 68	Synthetic F/G C.O. 100			Synthetic F/G Compressor Oil
<b>Industrias Certanium (Mexico)</b>		Metatron 269-46	Metatron 269-68	Metatron 269-100	Metatron 269-150		
<b>Industri-Lube</b>	I-32FG	I-46FG		I-100FG	I-150FG		
<b>Ingersoll-Rand</b>		SSR H-1F	FG Coolant				
	Silol FG (viscosity unknown)						PAO, for Silu compressors
<b>JAX</b>	Syncomp FG 32	Syncomp FG 46	Syncomp FG 68	Syncomp FG 100	Syncomp FG 150		
<b>Kaesar</b>		Sigma 8000FG 460					
	FG Premium Plus						
<b>Keystone</b>	Nevastane SL 32	Nevastane SL 46	Nevastane SL 68	Nevastane SL 100	Nevastane SL 150	Nevastane SL 220	PAO
	See Total						
<b>Leroi</b>		SSL-46FG	SSL-35F				
<b>Levroil</b>	FQL-C 32/46		FQL-C 68	FQL-C 100			Extended Hour Series
<b>Lubcon</b>	Turmosynthoil GV32	Turmosynthoil GV46	Turmosynthoil GV68	TurmosynthoilGV100	TurmosynthoilGV150	Turmosynthoil GV220	
<b>Lubricants USA</b>	see Total						
<b>Lubricating Specialties</b>	Syncom FM 32	Syncom FM 46	Syncom FM 68	-----	-----	-----	PAO
<b>Lubrication Engineers</b>		Quinplex 4046					
<b>Lubricon</b>	Omnilube 32/46		Omnilube 68	Omnilube 100			Ultrachem product
	Omnilube 520	Omnilube 546	Omnilube 568	Omnilube 5131	Omnilube 640		Ultrachem product
<b>LUBRIPLATE</b>	SFGO Ultra 32	SFGO Ultra 46	SFGO Ultra 68	SFGO Ultra 100	SFGO Ultra 150	SFGO Ultra 220	PAO, also ISO VG 22
<b>INLUBE (Australia)</b>		113-46	113-68	113-100			
<b>Magna</b>		Omega 615-46		Omega 615-100			
<b>Mainlube (Australia)</b>		113 Oil 46	113 Oil 68	113 Oil 100			
<b>Mattei</b>				Rotoroil 8000FG			Diester
<b>Mobil</b>	SHC Cibus 32	SHC Cibus 46	SHC Cibus 68	SHC Cibus 100	SHC Cibus 150	SHC Cibus 220	
<b>Nils Italia (Italy)</b>	Compr Synt Food 32	Compr Synt Food 46	Compr Synt Food 68				
<b>Nye</b>	269		271		272		PAO
<b>Pakelo (Italy)</b>	Non Tox Oil Compressor 32 through 150						PAO
<b>Performance Filters (PFI)</b>	SL-32FG	SL-46FG		SL100FG			
	BGGCL 32	BGGCL 46	BGGCL 68				
<b>Petro-Canada</b>	Purity FG 32	Purity FG 46	Purity FG 68	Purity FG 100			Group III
<b>Petronomics</b>	51300	51302	51304	51306	51308		PAO Food Grade Compr. Oil
		55304	55306	55308	55310		PAO Food Grade Comp&HydOil
	55320	55322	55324	55326	55328	55330	PAO RS Food Grade Compr. Oil
			54040	54042			PAO FG RS & Recip Compr. Oil
	56060	56062	56064	56066	56068		POE FG RS & Recip. Comp. Oil
	56160	56162	56164	56166	56168		PAO FG RS & Vane Comp. Oil
	56180	56182	56184	56186	56188		PAO FG Process Gas Comp. Oil
	56200	56202	56204	56206	56208		PAO FG RotaryCom&BlowerOil
	56540	56542	56544	56546	56548		Silicone FG Gas & RS Comp Oil
	56630	56632	56634	56666	56668		PAO, Kosher Compressor Oil
<b>Petrochem</b>	SynCOMP FG 32	SynCOMP FG 64		SynCOMP FG 100	SynCOMP FG 150		PAO
<b>Petronas (Malaysia)</b>		Pressol SYN RS 46	Pressol SYN RS 68	Pressol SYN RS 100	Pressol SYN RS 150		PAO

	<i>ISO 32</i>	<i>ISO 46</i>	<i>ISO 68</i>	<i>ISO 100</i>	<i>ISO 150</i>	<i>ISO 220</i>	<i>Remarks</i>
<b>PSI</b>	FG32	FG46					
<b>Quincy</b>			Quin-syn F				
<b>Rocol</b>	Foodlube Hi-Power 32, 46		68	100			
<b>Royal Lubricants (Anderol)</b>	Royco 432FG	Royco 446FG	Royco 468FG	Royco 486FG			
<b>Royal Purple</b>	Synfilm FDA 32	Synfilm FDA 46	Synfilm FDA 68	Synfilm FDA 100			
	Poly-Guard FDA 32	Poly-Guard FDA 46	Poly-Guard FDA 68	Poly-Guard FDA 100	Poly-Guard FDA 150	Poly-Guard FDA 220	
<b>Schaeffer</b>	#269 Hydr. H-1 32	#269 Hydr. H-1 46	#269 Hydr. H-1 68	#269 Hydr. H-1 100	#269 Hydr. H-1 150	#269 Hydr. H-1 220	PAO
<b>Sentinel</b>	S NT CO 10	S NT CO 10/20	S NT CO 20	S NT CO 30			
<b>Sentinel Canada</b>	SenSyn 432 FG	SenSyn 446 FG	SenSyn 468 FG	SenSyn 486 FG			PAO
<b>Shell</b>	Cassida CR 32	Cassida CR 46	Cassida CR 68	Cassida CR 100			
<b>SLFi</b>	SL-32FG	SL-46FG		SL-100FG			
	X32FG	X46FG	X68FG	X100FG			
	BGGCL 32	BGGCL 46	BGGCL 68				Biodegradable
<b>Statoil (Norway)</b>	CP-4608-100-F			(100)			PAO, R ecip Compressors
	CP-4600-46-F	(46)					PAO, Screw Compressors
<b>Summit (Kluber N.A.)</b>	FG-100	FG-200	HySyn FG-250	FG-300	FG-500		Kosher
<b>Texaco</b>	Cygnus Com PAO 32	Cygnus Com PAO 46	Cygnus Com PAO 68	Cygnus Com PAO 100			PAO, no longer marketed
<b>Total</b>	Nevastane SL	32	46	68	100		PAO
	Nevastane SE						Ester
		Vestan Syn C.O. 46		Vestan Syn C.O. 100			PAO
<b>Tribology Tech-Lube</b>	TACO FG 32	TACO FG 46	TACO FG 68	TACO FG 100	TACO FG 150		
<b>Ultrachem</b>	Omnilube 520	Omnilube 546	Omnilube 568	Omnilube 5131	Omnilube 640		Kosher, NSF
	Omnilube32/46		Omnilube 68	Omnilube 455			Kosher, NSF, longer life
<b>Verkol (Spain)</b>		Navasynt FG 46					
<b>Whitmore</b>	Medallion SAC 32	Medallion SAC 46	Medallion SAC 68	Medallion SAC 100			

# Lubrication Technologies, Inc.

## Synthetic Lubricant Cross Reference Chart Series

### Synthetic H-1 Hydraulic, Gear, Chain, Other Oils

	Series Name		ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	ISO 680	ISO 1000	Remarks
<b>Acculube</b>	ALH-FG	15	32	46	68	100							Hydraulic
	ALPG						150F	220F	320F	460F	680F		PAG Gear & Bearing
<b>Addinol (Germany)</b>	Chain Oil FG		32				150			460			Chains
<b>Aluchem (Italy)</b>	Alusynt FGH		32	46	68	100							Hydraulic
	Alusynt FGL	ISO 5, 15, 22											Airlines
	Alusynt FGR						150	220	320	460	680	1000	Gears, Chains & Bearings
	Alusynt FGR-PA						150	220	320	460			Gears, Chains & Bearings
	Alusynt HT					100	150	220	320	460	680	1000	Chains
	Alusynt PSL					100	150	220	320	460	680	1000	Chains & Bearings
	Alusynt White AM	15, 22	32	46	68	100	150	220	320	460	680	1000	
<b>American Synthol</b>	Amerilube SGLX-FG		32	46	68	100	150	220					Gear
	Amerilube SGLX-LT-FG		32		68								Gear
	Ameritemp HTF-FG		32		68	100							Heat Transfer
	Amerilube ATP-FG												Air tool
<b>Anderol</b>	6000 series				6068	6100	6150	6220	6320	6460	6680		Gear, PAO
	FGH-		32	46	68	100	----	----	----	----			Hydraulic, PAO
	HTC							220		460			Chan, PAO
	HTC PG						150	220					Chain, PAG
<b>Anglomoil (Australia)</b>	SFG Gear Oil							6220	6320				PAO Gear Oil
	SFG Hydraulic Oil		32	46	68								PAO Hydraulic Oil
<b>Aral (Germany)</b>	Eural Chain		32					220		460			Chain
	Eural Gear				68		150	220		460			EP Gear
	Eural Hyd	15	32	46	68								AW Hydraulic oil
	Eural SP		32										Flushing Fluid
<b>BASF</b>	Plurasafe WGF 46 FG			(46)									Water glycol FR hydraulic
<b>Bechem</b>	Berusynth FG-H		32	46	68	100	150	220	320	460	680		Hydraulic
	Berusynth VPA 13 (ISO 5)												Hydraulic
<b>Bel-Ray</b>	No-Tox Syn Hyd Oil		32	46	68	----	----	----	----	----			Hydraulic
	No-Tox Syn Gear Oil						150	220	320	460	680	1000	Gear
	No-Tox Syn Worm Gear Oil									460	680	1000	Worm Gear
	No-Tox Chain Lubricant 65												Chain
	No-Tox HT Transfer Fluid		32	46									Heat Transfer
<b>BVA</b>	No-Tox Syntex Oil					150	220	320	460	680			
	SHP-8-F		32	46	68	100	150	220	320	460			PAO Hydraulic
	PGNS-18-F					100	150	220					PAG

	Series Name	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	ISO 680	ISO 1000	Remarks
<b>Camco</b>	FMO-7-			68	100	150	220	320	460	680		PAO Gear, Hydraulic
	FMO-8-4678-			68	100	150	220					PAO Hydraulic, Gear, Compr. PAO Chain
<b>Castrol</b>	FoodProof 1800/						220	320	460	680	1000	Gear, PAG
<b>Chem-Sol</b>	SP Food Grade Hydraulic Fluid			68								Hydraulic
<b>CITGO</b>	Clarion Synthetic Gear Fluid					150	220	320	460			Gear
	Clarion Food Grade FR Fluid		46									Water Glycol Fire Res Hydraulic
	Clarion SynBar Fluids	32		68								Barrier Fluid
<b>Cognis</b>	Breox FGL					150	220	320	460	680	1000	PAG, water soluble
<b>Compagnia Italiana (Italy)</b>	Gear Sint SX	32	46	68	100	150	220	320	460			PAO Gear
<b>Conoco</b>	Syncon FG Hydraulic Fluid		46	68	100							PAO
<b>CRC</b>	Food Grade Lube											Aerosol
<b>Dow Chemical</b>	UCON Food Grade Lubes	32	46	68	100							EP/AW, PAG
	UCON Lubricant SL-3000										(3000 cSt at 40C)	PAG, for heavy loaded bearings
<b>Dow Corning</b>	Molykote L-1468FG			(68)								Freezer Chain, PAO
	Molykote L-1146FG								(460)			Gear, PAO
	Molykote L-1605FG (ISO 5)											Barrier Fluid, PAO
	Molykote L-1668FG			(68)								Vacuum Pump Oil
<b>DuPont</b>	Krytox	FG 40, 45, 50										Chains, Compressors, Brgs, Gears
		FG 10, 12, 15										Mechanical Pumps
<b>Eurol (Netherlands)</b>	Hykrolsyn FG		32	46								Hydraulic
	Eurotherm FG		32									PAO, Heat Transfer
<b>Exxon</b>	Glycolube FG					150	220		460			Gear, PAG, no longer marketed
	Univis Special Mist EP			68	100	150	220	320	460			Gear, PIB, no longer marketed
<b>Flowserve</b>	DS-4614 5-F	32-F										Mechanical Seal Barrier Fluid
<b>Fuchs</b>	Geralyn SF	32	46	68	100	150	220	320	460	680		PAO, Gear, Brg, Hydr, Chain
	Geralyn PG						220		460			Gear
	Geralyn Refrigeration Oil											PAO
	Silicone Oil											Silicone MultiPurpose
<b>Gulf Oil Ltd.</b>	Syn Food Grade Lubricant 32		46	68	100							Lube, PAO
<b>Habot (So. Africa)</b>	H-7300 series						H-7366		H-7388			Gear
	H-7600 series	H-7611	H-7622	H-7633	H-7644	H-7655						Hydr, Chains, Bearings
<b>H&amp;B Industries</b>	HB-1251 Hysyn FG	FG-32	FG-46	FG-68	FG-100							Hydraulic
	HB-1229 Syngear FG					150	220	320	460	680		Gear
	HB-1278F Food Grade High Temp						220					Chain, Kosher
<b>Henkel</b>	Loctite ViperLube	10W	15W	20W								Hydraulic, PAO
	Loctite ViperLube						90W		140W			Gear, PAO
<b>Houghton</b>	Houghto-Safe 620TY											Water Glycol Hydraulic
<b>HUSKEY</b>	HI-LO	32	46	68	100	150	220	320	460			Hydr, Gear, Chain, Compr, PAO
	15A14 Oils	32	46	68	100	150	220	320	460			Hydr, Gear, Chain, Brgs, Ester
<b>Industri-Lube</b>		I-32FGI	I-46FGI	I-68FGI	I-100FGI	I-150FGI	I-220FGI	I-320FGI	I-460FGI			Gears
<b>Interlube</b>	Cinnfluid HTC											Hydraulic
	Cinnfluid GB+1											Vacuum Pump Oil
<b>Ironsides (UK)</b>	Food Shield PAO Hydraulic	32	46	68	100							Multi-use, PAO
<b>JAX/Behnke</b>	Flow Guard Synthetic 32		46	68	100	150	220	320	460			Hydraulic
	Magna-Plate	80	86			88						Hydraulic
	Pyro-Kote	32		68			220					Chain, PAO
												Ester Oven Chain

	Series Name	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	ISO 680	ISO 1000	Remarks
<b>JAX/Behnke (cont)</b>	Angel-Guard				100D, 100E	150D						Can Seamer Oil
	Siulicone Fluid 350											Silicone Multipurpose
<b>Keystone</b>	Nevastane SL	32	46	68	100	150	220	320	460			Hydraulic/Lube Oil
	Nevastane SY											PAG
	See Total											
<b>Kluber (Germany)</b>	Kluberoil 4 UH 1-	32	46	68	100	150	220	----	460	680		Hydr/Gear/Chain, PAO
	Klubersynth UH1 6-					150	220	320	460	680		PAG
	Kluberfood NH1 CH 2-						220					Chains
<b>Krylon</b>	Tri-Flow Food Grade Oil	32	46	68	100	150	220	320	460	680		General purpose
<b>Huskey</b>	15A14	32	46	68	100	150	220	320	460			Hydraulic, Gear, Chain
	HI-LO	10	20		30							Bearing, Chain
<b>Levroil</b>	FQL High Temp 220						(220)					PAG
	FQL 2000 series											Gear
<b>Lubcon Turmo</b>	Turmo Synthoil											Gear
	Lubricants USA											
	see Total											
<b>Lubrax (So. Africa)</b>	GO Syn FG			68		150	220	320	460			Gear
<b>Lubricating Spec.</b>	Synlube FM	32	46	68	100	150	220	320	460	----		Gear, PAO
	SynOil FM	32		68								Refrigeration Oil, PAO
	SynTherm	FM 32										Heat Transfer Fluid, PAO
	Synthetic Heat Transfer Oil	32										Heat Transfer Fluid, PAO
<b>Lubri. Spec. (cont)</b>	Syncom FM	32	46	68								Compressor
	Syntherm FM	(32)										PAO Heat Transfer Fluid
<b>Lubr. Engineers</b>	4046 Quinplex		46									Machine Lube
<b>Lubriplate</b>	SFGO	32	46	68	100	150	220	320	460	680		Gear/Chain/Bearing, PAO
	SFGO Ultra	32	46	68	100	150	220	320	460	680	1000	Gear, PAO
	Syn H1 220						(220)					Gear/Chain/Bearing, PAG
<b>Magna (Hong Kong)</b>	Omega 585											Gear & Chain
<b>Metatron (Mexico)</b>	Metatron 276				100	150	220	320	460	680		PAO, Gears, Chains
<b>Millers Oils Ltd.</b>	Millfood Synth Hydraulic Oil	32	46	68								Hydraulic
<b>Mobil</b>	SHC Cibus	32	46	68	100	150	220	320	460			Gear, Hydraulic, Bearing
	Glygoyle					150	220	320	460	680	1000	PAG Gear, Bearing
<b>Molyduval (Germany)</b>	Syntholube A LM	32	46	68	100	150	220	320	460			Gear, Hydraulic, Chain
<b>New Era (UK)</b>	Foodsafe Chajn & Gear Oil						220					
<b>Nye</b>	Synthetic Oil	269		271		272						PAO
	UniFlor								8620	8320		PFPE
<b>Orelube</b>	Synchain								460			Chain
	ET	10S		20S	30S	40S	90S		140S			
<b>Pennzoil</b>	Pennzbell FG-PAO	----	46	68	----	----	----	----	----			Hydraulic
<b>Petro-Canada</b>	Purity FG Synthetic EP Gear						220					Gear
<b>Petrochem</b>	GearSyn FG					150	220		460	680		Gear
	HydSYN FG	32	46	68	100							Hydraulic
	HT-1000 Syn Oven Chain Lubr					(150)						Chain
	CR-10 Syn Cooler Chain Lubr (32)											Chain
	PR FG				100	150	220		460			Proofer Chain
	CR FG (ISO 5, 10, 15)											Cooler Chain
	SynAIR FG	32	46	68								Air Line Lubricant
<b>Petronomics</b>	PAO Kosher Hydraulic Fluid	51226	51228	51230	51232							
	PAO FG Hyd/Ind. Gear Oil		55160	55162	55164	55166	55168	55170	55172	55174		
	PAO High/Low Temp. Gear/Hyd		55346	55348	55350	55352	55354	55356	55358			

	Series Name	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	ISO 680	ISO 1000	Remarks
<b>Petronomics (cont)</b>	POE FG High Temp Chain Lube			55460								
	PAO FG Chain Lube	56590	56592	56594	56596	56598						
	PAO Kosher Industrial Gear Oil					56600	56602	56604	56606	56608		
	PAO Kosher Blower Lube						56694	56696				
	POE Kosher Hydraulic Fluid	56722	56724	56726	56728							
	PAO FG Low Temp Chain Lube				57204	57206	57208	57210				
<b>Phillips 66</b>	POE Food Grade Hydraulic Fl	58020	58022	58024								
	Syncon FG Hydraulic Fluid		46	68	100							PAO
	Food Safe Hydraulic PML 703	32	46	68	100							Hydraulic
<b>PML (UK)</b>	Food Safe Gear Oil PML 704				100	150	220	320				Gear
	Getriebeoel LMP			68	100	150	220	320				PAO, Hydraulic, Gear
<b>Ravenol (Germany)</b>	FG PAO Hydraulic	32	46	68	100							Hydraulic
<b>Rock Oil (UK)</b>	Foodlube Chain Fluid					150						PAO
<b>Rocol</b>	Foodlube Hi-Torque				100	150	220	320	460	680		PAO
	Poly Guard FDA	32	46	68	100	150	220	320	460	680		Hydraulic, PAO
<b>Royal Purple</b>	Barrier Fluid FDA 22, 34, 56, 78, 910											Mech. Seal barrier fluid
	Crystal Clear FDA	32	46	68	100	150	220	320				Hydraulic, Gear - PAO
	Synfilm FDA	32	46	68		150	220	320	460	680	1000	
	Crystal-Pure FDA	32	46	68	100	150	220, 50X	320, 60X	460	680		Lube Oil, PAO
	Chain Magic FDA											Chain
<b>Schaeffer</b>	269 Hydraulic Oil H-1	32	46	68	100	150	-----	-----	-----			Hydraulic, PAO
	276 Synthetic H1 Lube					150	220	320	460			Gear
	450 Pure Synthetic Smokeless FG H-1 Chain Lube (ISO 15)											POE Chain
<b>Sentinel</b>	S NT HO	10	10/20	30	40							Hydraulic
	S NT GO	75	80	75/80	75/90	80/90	90	90/140	140	250		Gear
	S NT CH			20	30							Chain Oil
	S NT ALO		46									Air Line Oil
	S NT AA1	10		20	30	40	150	90/140	140	250		
	S NT HTF											Heat Transfer Fluid
<b>Sentinel Canada</b>	SenSyn	432 FG	446 FG	468 FG	486 FG							Hydraulic, PAO
	Cassida Fluid HF	32	46	68		-----	-----	-----	-----			Hydraulic, ISO 15 also
	Cassida Fluid GL					150	220	320	460	680	-----	Gear
	Cassida Fluid GLE				100	150	220					Can Seamer Gear
	Cassida Chain Oil	LT				150	HT (ISO 220/320)				1000	Chains
	Cassida Fluid VP 100				(100)							Food Grade Vacuum Pump Oil
	Cassida Fluid WG						220	320	460	680		Worm Gears
	Cassida Silicon Fluid											Silicon Aerosol
<b>Siam Fine Chemicals</b>	Synthetic Gear H1					150	220	320	460			Gear
	Synthetic Hydraulic H1	32	46	68								Hydraulic
	Synthetic Oven Chain											Oven Chain
<b>SLFi</b>	ATP-FG (22)											Air Tool & Air Line
	BG&GHF-FG 22	32	46	68								Bio-Green & Gold FG Hydraulic
	HTBL80-FG			68/100								High Temp Bearing Lube
	HTF-FG	32		68	100							Heat Transfer Fluid
<b>Southeast Oil &amp; Gr.</b>	SGL-FG				100	150	220	320	460	680		Gear
	Alithicon FM Enclosed Gear Lubricant					150						Gear
<b>Statoil (Norway)</b>	CP-4608-46-F		(46)									Hydraulic, PAO
	CP-4617-F						220	320				EP Gear, PAO
	CP-4678-68-F			(68)								Chain, PAO

	Series Name	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	ISO 680	ISO 1000	Remarks
<b>Strub (Switzerland)</b>	Food Lube Full Syn High-tech		46	68		150						
<b>Summit (Kluber NA)</b>	Hysyn FG 15 22	32	46	68	100	-----	-----	-----	-----			Hydraulic
	Syngear FG					150	220	320	460	680		Gear, PAO
	Syngear PG					150F	220F	320F	460F	680F		Gear, PAG
	SBL						220F	320F				Blowers
<b>Super Lube</b>	Synthetic Gear Oil					150	220	320	460			Gear
<b>Swan Tek (UK)</b>	ZX PAO FG Hydraulic	32	46	68								Hydraulic
<b>SWEPCO</b>	Synthetic Lube H-1											PAO
<b>Synco Chemical</b>	Super Lube Synthetic Gear Oil						220	320	460			Gear
<b>Talcor</b>	FM Synthetic Gear and Chain Oil											
	FP Oils											Tacky Chain Oils
	FP Thermoils											bakery chains, hydr. oil
<b>Texaco</b>	Cygnus Hydraulic PAO	32	46	68	100	-----	-----	-----	-----			Hydraulic, no longer marketed
	Cygnus Gear PAO					150	220		460	680		Gear, no longer marketed
	Cygnus Synthetic Chain Lubr			68								Chain, no longer marketed
<b>Thames (UK)</b>	Diamond PAO Hydraulic	32	46	68	100							Hydraulic
<b>Total</b>	Vestan Synthetic AW	32	46	68								Hydraulic, PAO
	Vestan Synthetic Gear						220		460			Gear, PAO
	Vestan PAG Gear						220		460			Gear, PAG
	Vestan FR Fluid		(46)									FR Hydraulic, Water Glycol
	Nevastane SY						220	320				PAG
	Silicone Fluid FG 350											Silicone
	Biohydran		46									Hydraulic
<b>Tribol</b>	see C astrol											
<b>Tribology Tech-Lube</b>	T-FGO	32	46	68	100	150	220	320	460	680		Gear/Hyd, NSF registered
	T-FGO HT					150		220				Chain
<b>Tuthill</b>	PneuLube FG Synthetic Food Grade Oil				100	150						PAO Vacuum, Blowers
<b>Ultrachem</b>	Omnilube FGH	1032	1046	1068	1100	1150	1220	1320	1460			Hydraulic
	Omnilube FGG				1100	1150	1220	1320	1460	1680		Gear
	Omnilube FGG				2100	2150	2220	2320	2460			Gear
	Omnilube PG-FG Oils					130	220					PAG Chain
<b>Van Meeuwen (Neth.)</b>	Food Care Synthetic Gear			68		150	220	320	460	680		Gear
<b>Veloil (Thailand)</b>	Foodpro EP Syngear			68	100	150	220	320	460	680		Gear
<b>76 Lubricants</b>	Syncon FG Hydraulic Fluid		46	68	100							PAO

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# Lubrication Technologies, Inc.

## Synthetic Lubricant Cross Reference Chart Series

### Synthetic Industrial E. P. Gear Lubricants

	Series Name	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	ISO 680	ISO 1000	Remarks
AGMA Grade		1EP	2 EP	3 EP	4 EP	5 EP	6 EP	7 EP	8 EP			
<b>Acculube</b>	ALEP	32	46	68	100	150	220	320	460			PAO
	ALPG						220	320	460	680		PAG
<b>Addinol (Germany)</b>	Eco Gear S					150	220	320	460	680		
	Eco Gear S-T		68									-50C Pour Point
	Poly Gear PG						220	320	460	680		PAG
	Gear Oil CKT		68	100			220	320	460			CLP Type
<b>Agean Mrn (Greece)</b>	Alfasynth Gear 220						(220)					PAO
<b>Agip (Italy)</b>	Blasia S					150	220	320				PAG
	DT SINT		68	100	150	220	320	460	680			
<b>Alithicon*</b>	SGO Enclosed Gear Oil				100	150	220	320	460			
<b>Allegheny Petrol.</b>	Altra SHL Gear EP	46	68	100	150	220	320	460	680	1000		
<b>Aluchem (Italy)</b>	Alusynt X-EP		68	100	150	220	320	460	680	1000		
	Alusynt PSL			100	150	220	320	460	680	1000		PAG
<b>Amalie</b>	Synthetic Industrial Gear Oil						220	320	460	680	1000	
<b>American Agip</b>	Syngear EP	-----	-----	100	150	220	320	460	-----	-----		PAO
<b>American Chem. Technologies</b>	EcoGear			100		220	320	460				
<b>American Lubr.</b>	Syn EP Gear				100	150	220	320	460			PAO
<b>American Oil &amp; Supply</b>	PAO Synthetic EP Gear Oil		68	100	150	220	320	460	680			PAO
<b>American Synthol</b>	Amerilube SGL		68	100	150	220	320	460	680			
<b>AMSOIL</b>	-----			SGK	SGL	SGM	SGN	SGO	SGP	SGQ		PAO
<b>Anderol (Chemtura)</b>	-----					4220	4320	4460	4680	4999		PAO
					5150	5220	5320	5460	5680			PAO
					7150	7220		7460				PAG
	(#) XEP	4032	4046	4068	4100	4150	4220	4320	4460	4680	4111	PAO
	(#) XEP						5220	5320	5460			PAO
	(#) XEP	-----	-----	-----	2150	2220	2320	-----	-----	-----		Diester
<b>Aral (Germany)</b>	Degol PAS					150	220	320	460			PAO
	Degol GS					150	220	320	460	680	1000	PAG
	Degol BAB		68	100			220		460			Ester
	Degol ESG				100		220	320	460			PAO
	Degol BMB	46			100		220	320	460	680	1200	Silicone
	Degol BG	46	68	100	150	220	320	460	680			Silicone
	Degol BG plus			100	150	220	320	460	680			Silicone



	Series Name	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	ISO 680	ISO 1000	Remarks
<b>Aztec (UK)</b>	Syngear	46	68	100	150	220	320	460	680			PAO
	Synthetic Gear Oil W				100/150							PAG
<b>Baum's Castorine</b>	Tena-Film EP				500	700	1000	1400				
<b>Bechem (Germany)</b>	Berusynth EP				100	150	220	320	460	680	1000	
<b>Bel-Ray</b>	SE2 Lubricant	50	----	65	90	140	200	200	250	350		PAO
	Synthetic Gear Oil 6692						(320)					PAO
<b>Benz Oil</b>	Syn-Tech PAO	----	68	100	150	220	320	460	680	----		PAO
<b>BP</b>	Enersyn SG-XP					220		460				PAG
	Enersyn HTX					150	220	320				PAO
<b>BVA</b>	SHP-29					150	220	320	460			PAO
<b>C&amp;C Oil</b>	Duration Syn EP Gear Oil				100	150	220	320	460			
<b>Cam2</b>	Synthetic EP Industrial Gear Lube		68	100	150	220	320	460	680	1000		
<b>Castrol</b>	Isolube EP	46	68	100	150	220	320	460	----	----		Group III Base Oil
	Alphasyn PG				150	220	320	460				PAG
	Alphasyn EP						320					PAO
	Syngear					220						Ester
	Tribol 800-	----	----	----	150	220	320	460	680	1000		PAG
	Tribol 1510/					220	320	460				PAO
	Optigear Synthetic A					220	320	460				PAO
	Optigear Synthetic X						320					PAO
	BIOTOP 1418				150	220	320	460				Biodegradable Ester
<b>Century/NFO</b>	Gear Pro			3S	4S	5S	6S	7S				POE
<b>Cepsa (Spain)</b>	Gear HPS (Engranajes)				150	220	320	460				PAG
	Gear HPX (Engranajes)		68	100	150	220	320	460	680			PAO
<b>Champion</b>	SynGold EPG		68	100	150	220	320	460	680			API GL-5 level
<b>Chemtool</b>	CT EP Gear Oil			100	150	220	320	460				PAO
<b>Chevron</b>	Tegra Synthetic Gear	----	----	----	150	220	320	460	680	----		PAO
<b>CITGO</b>	Citgear Syn EP Gear Lubricant	----	68	100	150	220	320	460	680	----		PAO
<b>Cognis</b>	Emgard (ISO) IND-EP	----	----	----	150	220	320	460	680	----		
	Emery	----	----	----	2825	2826	2827	2828	2829	----		
	Breox IL SW					150	220	320	460			PAG
	Breox SL											PAG, water soluble
	Worm Gear Lubricant 65											PAG
<b>Compagnia Italiana (Italy)</b>	Molyguard Gear Synt	46	68	100	150	220	320	460	680	1000		
<b>Conoco</b>	Syncon EP Gear Oil	----	----	----	150	220	320	460	680	----		PAO
	Syncon EP Plus Gear Oil					220	320	460				PAO, High VI
	Syncon Mist Oil			100								PAO, Mist Lube Systems
	Syncon Premium EP Gear Oil						320	460	680			PAO, GE Wheel Motors
	Syncon WTL						320					PAO, Wind Turbines
<b>CPI</b>	4617-				150	220	320	460				PAO
<b>Darmex</b>	-----				75/90EP	75/90EP	90EP	9140EP	140EP			
<b>David Weber</b>	Syngear EP				100	150	220	320	460			PAO
<b>Dow</b>	UCONALL 32	46	68			150	220		460			PAG
<b>Dow Corning</b>	Molykote L-2100 series				L-2110	L-2115	L-2122	L-2132	L-2146	L-2168		PAO
<b>Dylon</b>	Ultra Gear SL	----	----	----		150	220	320	460	680	1000	
<b>ENOC (UAE)</b>	Reduct SH		68	100	150	220	320	460	680	1000		PAO
	Reduct PG						220	320	460			PAG

	Series Name	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	ISO 680	ISO 1000	Remarks
<b>Eurol (Netherlands)</b>	Syntan EP					150	220		460			PAG
<b>Exxon</b>	Spartan Synthetic EP		----	----	100	150	220	320	460	680	1000	PAO, no longer marketed
<b>Falk/Rexnord</b>	GMax 6000				(132 cSt@40C)							PAG
<b>Fuchs (Germany)</b>	Renolin Unisyn CLP						220	320	460			PAO
	Renolin PG						220	320	460			PAG
<b>Gulf Oil Ltd</b>	Synthetic Gear					150			460			PAG
	EP Lubricant SY				100	150	220	320	460	680	1000	PAO
<b>Habot (So. Africa)</b>	H-3000 series	H-3022 (32/46)		H-3033	H-3044	H-3055	H-3066 (220/320)		H-3088			
<b>H&amp;B Industries</b>	HB-1228 Syngear	32	46	68	100	150	220	320	460	680	1000	PAO
	HB-1277 Syngear						SH-1015	SH-1022	SH-1032	SH-1046	SH-680	SH-1000
<b>Huskey</b>	SGL-800 series	32	46	68	100	150	220	320	460	680	----	PAO
<b>Idemitsu Kosan (Japan)</b>	Daphne Alpha Gear	32	46	68	100	150	220	320	----			
	Daphne Alpha Worm							320	460			
<b>Igol (France)</b>	Synarok											PAG
<b>Ind. Oils Unltd</b>	Syngear G-				100	150	220	320	460			
<b>Industri-Lube</b>	SGO		----	68	100	150	220	320	460	680	----	
<b>Igol (France)</b>	Synarok GY											PAG
	Synarok Synth											
<b>Irving Oil</b>	Syn Gear Oil			68	100	150	220	320	460	----		PAO
<b>JAX</b>	Synax EP	----	----	----	----	150	220	320	460	680	----	PAO
<b>Keystone</b>	KSL Gear Lube	----	----	----	----	150	220	---	460	----	----	Diester, see note below
	Keygear					150	220		460			See note below
<b>Kluber (Germany)</b>	Syntheso D (ISO) EP	----	----	----	----	150	220	320	460	680	----	PAG
	Klubersynth EG 4-	----	----	----	100	150	220	320	460	680	----	PAO
	Klubersynth GH 6-	----	80	100	150	220	320	460	680	1000		PAG
	Klubersynth GEM 4-		32N-46N	68N	100N	150N	220N	320N	460N	680N		
<b>Kost</b>	KOSTGard SynGard EP			68	100	150	220	320	460	680		
<b>Leahy-Wolf</b>	Synmaster					EP4	EP5	EP6	EP7			PAO
<b>Lee Helms</b>	Triden SynGear SHF 32		46	68	100	150	220	320	460			
<b>Leprinxol (Germany)</b>	PG GK Synth		46	68	100		220			680		PAG
<b>LuBest/Momar</b>	Gear Oil				EP3	EP4	EP5	EP6	EP7			PAO
<b>LubMarine (Total)</b>	Elf Epona SA						220	320				PAO
<b>Lubricants USA</b>	see Total											
<b>Lubrication Engrs.</b>	Monolec		----	----	----	----	9220	9320	9460	----	----	PAO
<b>LUBRIPLATE</b>	Synlube HD	----	----	----	----	150	220	320	460	680	----	PAO
<b>Lubrax/Lubritene (South Africa)</b>	Lubrene GO Syn										1000	
<b>Maxol (Ireland)</b>	Synthetic Gear Oil W (viscosity unknown)											PAG
<b>Meguin (Germany)</b>	Gearol Synth CLP						220	320	460	680		PAO/Ester
<b>Metalcote</b>	MC EP Gear Oil				100	150	220	320	460			PAO
<b>Metatron (Mexico)</b>	Metatron 691				100	150	220	320	460	680		PAO
<b>Mobil</b>	Mobilgear SHC		----	----	----	150	220	320	460	680	1000	PAO, see below
	Mobilgear SHC							XMP				PAO, see below
	Glygoyle		----	11 (ISO 68/100)	22	30	----	HE460	HE680	----		PAG
<b>Molyduval (Germany)</b>	Syntholube G EP	46	68	100	150	220	320	460	680	1000		PAG
<b>Moroil Tech.</b>	SGL				100	150	220	320	460			
<b>Morris (UK)</b>	Lodexol FS					150	220	320	460			PAO
	Lodexol PG					150	220	320	460			PAG

	Series Name	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	ISO 680	ISO 1000	Remarks
<b>Neste Oil (Finland)</b>	Vaihteisto S			68	100	150	220					
<b>Nippon Oil</b>	Bonnoc AX											PAO
<b>OptiDyn</b>	OPGL						220	320	460			
<b>Orelube</b>						OL-150	OL-220	OL-320	OL-460	OL-680		
<b>OMV (Austria)</b>	OMV gear PG						220		460			PAG
	OMV gear SHG		68	100			220					PAO
<b>Pacer</b>	SGO					704		706		708		PAO
<b>Pennzoil</b>	Super Maxol S	----	68	100	150	220	320	460	----	----		PAO
<b>Petro-Canada</b>	Enduratex Synthetic EP	----	----	----	150	220	320	460	----	----		PAO
	Ultima Synthetic EP	----	----	----	150	220	320	460	----	----		Obsolete, replaced by Enduratex Synthetic
<b>Petronas (Malaysia)</b>	Gear Syn IG	32	46	68	100	150	220	320	460	680	1000	PAO
<b>Petronomics</b>	PAO Ind. Gear Oil		51072	51074	51076	51078	51080	51082	51084	51086	51088	PAO
	PAO HD Ind. Gear Oil					51092	51094	51096	51098	51101	51102	PAO
	PAO Gear & Bearing Oil	51122	51124	51126	51128	51130	51132	51134				PAO
	Polyglycol Gear & Bearing Oil		51390	51392	51394	51396	51398					PAG
	PAO Ind. Gear Oil	55160	55162	55164	55166	55168	55170	55172		55174		PAO
	PAO Low/High Temp Gear Oil	55346	55348	55350	55352	55354	55356	55358				PAO
	PAO Low Temp Oil		57202	57204	57206	57208	57210					PAO
	Polyglycol Gear Oil					58270	58272	58274	58278			PAG
<b>Phillips</b>	Syncon EP Gear Oil	----	-----	-----	150	220	320	460	680	----		PAO
	Syncon EP Plus Gear Oil					220	320	460				PAO, High VI
	Syncon Mist Oil			100								PAO, Mist Lube Systems
	Syncon Premium EP Gear Oil							320	460	680		PAO, GE Wheel Motors
	Syncon WTL							320				PAO, Wind Turbines
<b>PICO Chemical</b>	Syn GO EP			100	150	220	320	460				
<b>Primrose</b>	Syn-O-Gen 747-S			----	150	220	320	460	680	1000		PAO, also ISO 1500
<b>Prolab</b>	Monogear Synthetic				150	220	320	460	680			PAO
<b>QALCO (Qatar)</b>	Syntech GL							460	680			PAG
<b>Raloy (Mexico)</b>	PG Gear											PAG
<b>Ravenol (Germany)</b>	Getriebeoel PAO CLP		68	100	150	220	320	460				PAO
<b>Repsol-YPF (Spain)</b>	Super Tauro PAG				150	220	320	460	680	1000		PAG
	Super Tauro Sintetico			100	150	220	320	460				PAO/Ester
<b>Rosemead</b>	Betalube E				150-P	220-P	320-P	460-P	680-P			
<b>Royal Lubricants</b>	Royco	----	----	----	611	612	613	614	616	618		PAO
	Royco	----	----	----	637	638	----	639	----	----		PAG
<b>Royal Mfg.</b>	Monarch Syngear	32	46	68	100	----	220	----	460	----		
<b>Royal Purple</b>	Thermyl-Glyde		46	68	100	150	220	320	460	680	1000	PAO
<b>Schaeffer</b>	167 Moly Full Syn G.L.	----	68	100	150	220	320	460	680	1000		PAO, contains moly
<b>Sentinel</b>	S-	S-75	S-80	S-75/80	S-75/90	S-90	S-90/140	S-140	S-250			PAO
<b>Sentinel Canada</b>	SenSyn 1002PD, 1005PD, 1007PD, 1008PD (viscosities unknown)											PAO/Diester
	SenSyn 5600 Mild EP series (ISO VG 150 to 1000)											PAO, Mild EP
	SenSyn PG EP series (ISO VG 150 to 1000)											PAG
<b>Setral (Germany)</b>	Syn Gear EP series											
<b>Shell</b>	Omala HD	----	----	----	150	220	320	460	680	----		PAO
	Tivela S	----	----	----		220	320	460	680	----		PAG
<b>Shell Canada</b>	Tivela S					220		460				PAG
	Hyperia S					220		460	680			Approved for GE Wheelmotors
<b>Sinclair</b>	Dyno-Tech EP	----	68	----	150	220	320	460	680	----		

	Series Name	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	ISO 680	ISO 1000	Remarks
<b>Sinopec (China)</b>	Great Wall Fully Syn HD Industrial Gear						220	320				PAO
<b>SLFi</b>	SGL			68	100	150	220	320	460	680		
	Syn Bowl Mill							EMT320	EMT460	EMT680		
<b>Sogelub (Belgium)</b>	SOG Synthogear (viscosity grades unknown)											
<b>Statoil (Norway)</b>	LoadWay PG					150	220	-----	460	680		PAG
	Mereta									680	1000	PAO
<b>Summit (Kluber NA)</b>	Syngear SH	-----	-----		1010	1015	1020	1032	1046	1068	1100	PAO
<b>Sun Belgium</b>	Duragear					150	220	320	460			PAO
<b>Superior Ind.</b>	Ultra-Matic Syn EP Gear		S-80	S-75/80	S-75/90	S-80/90	S-90	S-85/140	S-140	S-250		Diester
<b>Taylor Petroleum</b>	Emert EP Industrial Gear Lube					150	220	320	460			
<b>Texaco</b>	Pinnacle EP	-----	-----	-----		150	220	320	460	680	-----	PAO, no longer marketed
<b>TEXASTE A</b>	Full Synthetic EP Industrial Gear Oil				100	150	220	320	460	680	1000	
<b>Thermal-Lube</b>	XL7316	32	46	68	100	150	220	320	460	680	1000	PAO
<b>Total</b>	Carter D	-----	-----	-----		150	220	320	460	680		Ester
	Carter SP	-----	68	100		150	220	320	460	680	1000	PAO
	Carter SY	-----	-----	-----		150	220	320	460	680	-----	PAG, worm gears
	Carter SH	-----	-----	-----		150	220	320	460	680	1000	PAO
<b>Tribology</b>	T(ISO Grade) EP Gear Oil	-----	-----			150	220	320	460	680	1000	PAO
<b>Tech-Lube</b>												
<b>Tri State Indust.</b>	Syn Gear DE				100	150	220	320	460			Diester
<b>Ultrachem</b>	Omnigear EP	-----	68	100		150	220	320	460	680	-----	PAO
	Chemlube		80W			80W-90	140	150	250			Ester
	Ultrachem EP		68	100		150	220	320	460	680		PAO
<b>Ultramar (Canada)</b>	Emgard Syn. WGL					150	220	320	460			Cognis product
(subsidiary Total)	Emgard Syn IND-EP					150	220	320	460			Cognis product
<b>United Oil (Australia)</b>	MAXIS3 Synthetic Ind Gear Oil			68	100	150	220	320	460			PAO
<b>Valvoline</b>	SynGard G	-----	-----	-----	-----	-----	-----	680	-----	-----	-----	
<b>Veloil (Thailand)</b>	Indpro Syngear EP		68	100		150	220	320	460	680		
<b>Verkol (Spain)</b>	Corvus EP					150	220	320	460			
	Patela					150	220	320	460		1000	PAG
<b>Wallover</b>	WOCO SGO			-----		150	220	320	460			PAO
<b>Whitmore</b>	Decathalon HD	-----	-----	-----		150	220	320	460	680	1000	PAO
	Decathalon F							320				PAO
<b>Wunsch (Germany)</b>	Synthetik Fluid SG-220		68	100	150	220			460			PAG
	Synthetik Fluid SGW			100	125	220						PAG
<b>Yale Selco (India)</b>	Selco SF-400								320		680	
<b>76 Lubricants</b>	Syncon EP Gear Oil	-----	-----	-----	150	220	320	460	680	-----		PAO
	Syncon EP Plus Gear Oil					220	320	460				PAO, High VI
	Syncon Mist Oil			100								PAO, Mist Lube Systems
	Syncon Premium EP Gear Oil							320	460	680		PAO, GE Wheel Motors
	Syncon WTL						320					PAO, Wind Turbines

\* Southeast Oil & Grease

Special note:

Mobil – also Mobilgear SHC 22M & 46M, which are ISO 23,000 & 46,000 respectively

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Lubrication Technologies, Inc.  
Houston, TX 77082  
www.lubritecinc.com

# Lubrication Technologies, Inc.

## Synthetic Lubricant Cross Reference Chart Series

### Synthetic Industrial R&O and (mild or non-EP) Gear Lubricants

	Series Name	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	ISO 680	ISO 1000	Remarks
AGMA Grade			1	2	3	4	5	6	7	8		
<b>Acculube</b>	ALS 6000 Series	32	46	68	100	150	220					PAO
<b>Addinol (Germany)</b>	Poly Gear PG						220	320	460	680		Polyethylene Glycol
<b>Alithicon</b>	Turbine Oil	6510	6515	6520	6530	6540	6550	6560	6570			
<b>Allegheny Petrol.</b>	Altra SHL Gr.& Brg.	32	46	68	100	150	220	320	460	680		
<b>Aluchem (Italy)</b>	Alusynt CX	(ISO 10 & 22)										for very high speed bearings
	Alusynt CX	32	46	68								for bearing impregnation
	Aluflos L				80	150		320				PFPE
<b>American Agip</b>	Syncirc	32	46	68	100	150	220	320	460		----	PAO
<b>American Lubr.</b>	Syn Circulating Oil	32	46	68	100	150	220	320	460			PAO
<b>American Synthol</b>	Amerilube SGLX			68	100	150	220	320	460	680	1000	
<b>AMSOIL</b>	-----	RCH	RCI	RCJ	RCK	RCL	RCM	RCN	RCO	RCP	RCQ	PAO,also have RCE (ISO 10),RCF (ISO 15)
<b>Anderol</b>		4032	4046	4068	4100	4150	4220	4320	4460	4680	4111	PAO
		6032	6046	6068	6100	6150	6220	6320	6460			PAO
<b>Baum's Castorine</b>	Tena-Film TH	150		300		400	500	600	2500			
<b>Benz Oil</b>	Syn-Tech	32	46	68	100	150	220	320	460			PAO
<b>BVA</b>	SHP-1	32	46	68	100	150	220	320	460			PAO
	PGNS-20	32	46	68	100	150	220	320	460			PAG
<b>Castrol</b>	Alphasyn	32	46	68	100	150	220	320	460	680		PAO
	SHL		46	68	100	150	220	320	460	680	----	
	Isolube	32	46	68	100	150	220	320	460	----	----	Group III
	Tribol 935-		----	----	----	----	Light	----	Heavy	----	----	PAG
<b>Chemtool</b>	CT Gear Oil	32	46	68	100	150	220	320	460			PAO
<b>Chevron</b>	Hypersyn		46	68	100	150	220	320	460	----	----	PAO
<b>CHS, Inc.</b>	Maxtron SHC			68		150	220		460			PAO
<b>CITGO</b>	Citgear Synthetic HT			68	100	150	220	320	460	680		PAO
<b>Cognis</b>	Emgard R&O		----	-----	-----	150	220	320	460	680	----	
	Emery		----	-----	-----	2845	2846	2847	2848	2849	----	
	Emery					2840	2841	2842	2843			Worm Gear
	Emgard WGL					150	220	320	460			Worm Gear
<b>Conoco</b>	Syncon R&O	32	46	68	100	150	220	320	460	680	----	PAO
<b>CPI</b>	4601-	32	46	68	100	150	220	320	460			PAO
<b>D-A</b>	Gear-Syn						220	320	460	----		
<b>Darmex</b>	GBO	10	1050	1050	75/90	75/90	90	9140	140			PAO
<b>David Weber</b>	Syngear	32	46	68	100	150	220	320	460			PAO
<b>Dow Corning</b>	MOLYKOTE L-					1115	1122	1132	1146			PAO
	MOLYKOTE L-	1232	1246	1268	1210							PAO

	Series Name	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	ISO 680	ISO 1000	Remarks
<b>Exxon</b>	Synesttic	32	46	68	100	150						Diester, no longer marketed
	Teresstic SHP	32	46	68	100	150	220	320	460	680		PAO, no longer marketed
	Spartan Synthetic				100	150	220	320	460			no longer marketed
<b>Fuchs Lubricants</b>	Geralyn SF	32	46	68	100	150	220	320	460	680		PAO, H1 FG
<b>Huskey</b>	15A14 Oils	32	46	68	100	150	220	320	460	680	1000	Ester
<b>Industri-Lube</b>	SGOX	----	----	68	100	150	220	320	460	680	----	
<b>Irving Oil</b>	Syn D&E Oil	32				150	220					
<b>JAX</b>	Syngear Ind. Gear	32	46	68	100	150	220	320	460	680		PAO
<b>KAL &amp; C (Korea)</b>	Superlube T	32	46	68	100							
<b>Keystone</b>	KSL	213, 214	800	220	219	222	---			----	----	Diester
<b>Kluber (Germany)</b>	Syntheso D (ISO)	32	46	68	100				460		----	PAG
	Constant OY	32	46	68	100	150	220		460			PAO
<b>Leahy-Wolf</b>	Synmaster G	32	1	2	3	4	5	6	7			PAO
<b>Lee Helms Inc.</b>	Triden SHF	32	46	68	100	150	220	320	460	680		PAO
<b>Liqua-Tek</b>	H-D Plus Syn-Gard				125	180	270	380				AW
<b>LuBest/Momar</b>	Turbine Oil	32	46	68	100	150	220					
<b>Lubricants USA</b>	see Total											
<b>Lubrication Engrs.</b>	Monolec	9032	9046	9068	9100	9150	9220	9320	9460	----	----	PAO
<b>LUBRIPLATE</b>	Synlube	32	46	68	100	150	220	320	460	680	1000	PAO
	SFGO	32	46	68	100	150	220	320	460	680	----	PAO, Food Grade
<b>Metalcote</b>	MC Gear Oil	32	46	68	100	150	220	320	460			PAO
<b>Mobil</b>	SHC	624	-----	626	627	629	630	632	634	636		PAO
<b>Moroil Tech.</b>	SRO	32	46	68	100	150	220	320	460			
<b>Pennzoil</b>	Pennzbell SHD	32	46	68	100	150	220	320	460	680	----	PAO
<b>Petro-Canada</b>	Synduro SHB	32	----	68	----	150	220	----	460	----	----	PAO
<b>Petronomics</b>	PAO Ind. Gear Oil	51070	51072	51074	51076	51078	51080	51082	51084	51086	51088	PAO
	Polyglycol Gear/Brg Oil			51390	51392	51394	51396	51398				PAG
	Polyalkylene Glycol Gear Oil					53090	53092	53094	53096			PAG
	PAO Ind. Gear Oil					56600	56602	56604	56606			PAO
<b>Phillips</b>	Syncon R&O	32	46	68	100	150	220	320	460	680	----	PAO
<b>PICO Chemical</b>	Syn RO	32	46	68	100	150	220	320	460			
<b>Ravenol (Germany)</b>	Getriebeoel PAO CL			68	100	150	220	320	460			PAO
<b>Rosemead</b>	Betalube R					150-0	220-0	320-0	460-0			
<b>Royal Lubricants</b>	Royco	5032	5046	5068	5100	5150	5220	5320	5460			PAO
<b>Royal Purple</b>	Synfilm GT	32	46	68	100	150	220	320	460			PAO
	Thermyl-Glyde Worm Gear								460	680	1000	PAO
	Polyguard	32	46	68	100							PAO
<b>Schaeffer</b>	264 Pure Synthetic	32	46	68	100	150	220				----	PAO, contains soluble moly
<b>Sentinel</b>	SMPO	10		20	30	40	50					PAO
	S-	75	75/80	80	75/90	80/90	90	90/140	140			PAO
<b>Sentinel Canada</b>	SenSyn 5000 series		(ISO VG 32 to 680)									PAO
<b>Shell</b>	Omala RL	32	----	68	100	150	220	320	460	----	----	PAO
<b>Sinclair</b>	Dyno-Tech AC		----	68	----	150	220	320	460	680	----	
<b>SLFi</b>	SGLX				100	150	220	320	460	680		
<b>Summit (Kluber NA)</b>	Syngear SH	7032	7046	7068	7100	7150	7220	7320	7460	7680	71000	PAO
<b>Texaco</b>	Pinnacle	32	----	68	100	150	220	320	460	680	----	PAO, no longer marketed
<b>TEXASTE A</b>	R&O Full Synthetic Gear/Brg Oil	46	68	100	150	220	320	460	680			ISO 10, 15, 22, 32 also

	<i>Series Name</i>	<i>ISO 32</i>	<i>ISO 46</i>	<i>ISO 68</i>	<i>ISO 100</i>	<i>ISO 150</i>	<i>ISO 220</i>	<i>ISO 320</i>	<i>ISO 460</i>	<i>ISO 680</i>	<i>ISO 1000</i>	<i>Remarks</i>
<b>Total</b>	Synolan 1000					150	220	320	460	680	1000	PAO, USA
<b>Tribology</b>		T-1032	T-1046	T-1068	T-1100		T-1220	T-1320	T-1460	T-1680	-----	PAO
<b>Tech-Lube</b>												
<b>Ultrachem</b>	Chemlube	624	625	626	627	629	630	632	634	636		PAO
	Chemlube 700 Series	724	725	726	727	729	730	731	734	736	739	
<b>Valvoline</b>	SynGard B	-----	46	68	100	150	220	320	460	680	-----	
<b>Whitmore</b>	Decathalon SH	-----	-----	68	100	150	220	320	460			PAO
<b>76 Lubricants</b>	Syncon R&O	32	46	68	100	150	220	320	460	680	-----	PAO
	Triton Syn TGO	32	46	68	-----	-----	220	-----	-----	-----		replaced by Syncon R&O

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# Lubrication Technologies, Inc.

## Synthetic Lubricant Cross Reference Chart Series

### Synthetic Industrial Chain Lubricants

	Family Name	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	ISO 680	ISO 1000	Remarks
<b>Acculube</b>	ALOC-				95		250 (260 cSt at 40C)					Ester
<b>Addinol (Germany)</b>	Chain Lube XHT		50			150	250					Ester, ISO 3000 Also
	Special Oil XH 220 A						(220)					
<b>Aluchem (Italy)</b>	Alusynt CT					150	220	320	460	680	1000	Ester
	Alusynt HTCL					150	220	320	460	680	1000	Ester
	Alusynt HTCL-FX					150	220	320				Ester, with PTFE
	Alugraf HVG			68		150	220	320				PAG
	Alusynt PSL				100	150	220	320	460	680	1000	PAG
	Alusynt HT				100	150	220	320	460	680	1000	Silicone, also ISO 1500
<b>American Synthol</b>	Amerilube CRCL			68	100							
	Amerilube HTCL			68	100	150	220	320	460			
	Amerilube CCCO			68	100							
	Amerilube CBGCL					150	220	320	460	680		
<b>Anderol</b>	2000 HTCL series				2100	2150	2220	2320	2460			Ester
	HTC PP					150						
	Chain Oil XL					150	220					POE
	Baking Chain Oil					150						POE, H2
<b>Apollo America</b>	see Idemitsu below											
<b>Aral (Germany)</b>	Deganit HT						260					Ester
<b>Bechem (Germany)</b>	Berfluid		151									for escalators
	Berusynth CU		46		100		220 250 280				1000	Ester
	Berumoly P 65	(ISO 5)										Ester, contains moly
	Berumoly P 73				(100)							PAG, contains moly
<b>Camco</b>	4208-				100		220	320				POE
<b>Cargo (Sweden)</b>	Hot Temp Plus					150						
<b>Castrol</b>	Viscogen KL											
	LubeCon 525	(ISO 22)										
	LubeCon 735	(ISO 22)										
	Tribol	940					930					
	Tribol 1420							1420				
	Tribol 1421					1421/150		1421 SG (276 cSt)				Ester
	Tribol 1430					(150)						Ester
	Tribol 1433				100	150						
	Molub-Alloy XTO			Light		Medium	Heavy	Super Heavy				PAG
	Viscogen G					175	220					
	Viscoen KL	3			9		15, 23					
	Viscogen KKK							28				



	Family Name	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	ISO 680	ISO 1000	Remarks
<b>Chemtool</b>	CT Synthetic Chain Oil						220/320					Ester
<b>Cognis</b>	Emery	5032	----	----	----	----	5220	5320	----			POE
	Emery	2881				2844						POE
<b>Compagnia Italiana (Italy)</b>	Moly Chain				100	150	220	320	460			
	EERE					9		19				
	LUBE PTFE	22		68		150						
<b>Digilube</b>	LP-991											
	LP-993				(120 cSt)							PAG, water soluble, ashless AW
<b>Dow Corning</b>	MOLYKOTE L-1428						(285 cSt at 40C)					POE
<b>Dylon</b>	LB-					2280						Contains Moly
<b>ET Lubricants</b>	Ultra-Temp Oven & Chain Oil			SAE 20			SAE 50					
<b>Fernihough (UK)</b>	Non-Carbonizing Super Chain Oven Lubricant			(ISO 68)								PAO/Ester blend
<b>Forsythe</b>	High Temperature Chain Oil			900 and 2200		(viscosity unknown)						
<b>Fuchs LubriTech (Germany)</b>	Stabylan				5000	3001, MO	3001					MO 3001 contains moly
	Stabylan					6000	5001					plus 5006 = ISO 3000
<b>Gulf Oil LP</b>	Polyol Ester High Temp			68								POE
<b>H&amp;B Industries</b>	HB-411 Synthetic HI-TEMP Chain Lube						(220)					
	HB-411A Ultra Lube Synthetic HI-TEMP Chain Lube						(220)					H1 Food Grade
	HB-1279 Synthetic High Temp Chain Lube								(460)			contains graphite
<b>Hatco</b>				3811, 3812	(both ISO 68 POE)		3866	(ISO 220, based on trimellitates)				for rebranding only
<b>Huskey</b>	650 HT Oil				(100)							POE, contains moly
	OCL-G 501				100							
	OCL-G 502						220					POE
	OCL-G 503							320				POE
	OCL-G 603							320				POE, water white
	OCL-T 703							320				POE
	OCL-NT 703							320				POE
<b>Hydrotex</b>	Synthetic Tenter Frame Oil						220					
	520 Synthetic Hi-Temp Chain											
<b>Idemitsu (Japan)</b>	Daphne Chain Master 260 NZ											
<b>INA (Croatia)</b>	INA Lanco Temp Plus											for transporter chains
<b>Industri-Lube</b>	I-SCO, I-SCO 150HT											
<b>JAX</b>	Magna-Kote 990											POE
	Magna-Kote 1020	(ISO 22)				150	220					water soluble syn.
	Magna-Plate 80, 86, 88											for freezer chains, H1
	Pyro-Kote	32		68			220					POE
<b>Keystone</b>	KSL Chain Oil	213				215, 217	550					
<b>Kluber (Germany)</b>	Klubersynth CH 2				100							Ester
	Hot Temp 2000											
	Hot Temp Super											
	Klubersynth CTH 2						260					
<b>Lubrax/Lubritene (South Africa)</b>	Synthetic Chain Oil HT						220					
<b>Lubricants USA</b>	See Total											
<b>Lubrication Engrs.</b>	Monolec 9965											

	Family Name	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	ISO 680	ISO 1000	Remarks
<b>LUBRIPLATE</b>	High Temp Synthetic 68, 220											Ester
	Syn H						220					PAG, H1
<b>Magna (Hong Kong)</b>	Omega 647											
	Omega 648											
<b>Mainlube (Australia)</b>							145 Oil					Poly Ethylene Glycol
<b>Matrix bv (Nthlnds)</b>	Chaintop						245-265 cSt at 40C					
	Chaintop MT			100	150		220	320	460			plus ISO 4200
	Chaintop MT DX							(295 cSt)				Ester
	Chaintop MT HA							(298 cSt)				
	Chaintop MT TE							(280 cSt)				
	Chaintop XL							(270 cSt)				
<b>Metatron (Mexico)</b>	Metatron 648											contains moly
<b>Mobil</b>	Synthetic Oven Lube 1090						(220)					POE
	Pyrolube 830											
<b>Morris (UK)</b>	Synthetic Chain Lubricant S-3403							(320)				Senter chain lube
<b>Mosil (India)</b>	SAM HT-300											
<b>NYCO</b>	Nycolube				5630HT (122 cSt)		5650HT (245 cSt),	5660HT (323 cSt),	5670HT (405 cSt)			Ester
<b>Oberon (Singapore)</b>	Oberon F232											
<b>Orelube</b>							HT-500		HT-1001 (ISO 390)			
							FB-300/250					
<b>Pennzoil</b>	Pennzbell SC #2											
<b>Petrochem</b>	Petro-Gard 220						(220)					Ester
	Petro-Gard 4000						(220)					Ester
	HT-2000			(80 cSt)								Ester
<b>Petronomics</b>	POE High Temp Chain Lube			55460								POE
	PAO Chain Lube	56590	56592	56594	56596	56598						PAO
	PAO Low Temp Chain Lube			57200	57204	57206	57208	57210				PAO
<b>Primrose</b>	750 Syn-O-Gen Synthetic Tenter Frame Oil						220					
<b>Prolab</b>	CFS-9000						(220)					
<b>ProLube</b>	HCL-1300							(320)				
<b>Ravenol (Germany)</b>	Kettenoel POE			100	150		220	320	460			POE
	Kettenoel PAO						220		460			PAO
	Kettenoel PAG						150					PAG
<b>Rocol (UK)</b>	Chain Guard 280						(130 cSt)					ester
<b>Rohloff GmbH</b>	Rohloff Special Chain Lubricant											bio-degradeable
<b>Royal Mfg.</b>	Syn Chain	32					220					
<b>Royal Purple</b>	Chain Magic											
	Max Chain											
<b>Schaeffer</b>	298 Smokeless Hi-Temp Chain Lube			68								POE, contains soluble moly
	298A Smokeless Hi-Temp Chain Lube						(150/220)					POE, contains soluble moly
<b>Sentinel</b>	S-HT Oven Chain Oil				400	500	600, 700					
	S-HT Extreme High Temp Oil											ISO 1500
<b>Sentinel Canada</b>	SenSyn 1138 (viscosity unknown)											
	SenSyn TFL 712 (viscosity unknown)											Tenter frame, diester w/moly
<b>Setral (Germany)</b>	SHT						220					
<b>Shell Canada</b>	Advance 100% Synthetic Chain Case Oil			(16 cSt at 40C)								Chain case oil

	Family Name	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	ISO 680	ISO 1000	Remarks
<b>Sinopec (China)</b>	SHT-500 Synthetic High-Temp Chain Oil							(280 cSt)				Ester
	SHT-518 Synthetic High-Temp Chain Oil							(313 cSt)				
	SHT-600 Synthetic High-Temp Chain Oil							(330 cSt)				Ester
<b>SLFi</b>	HTCL (High Temp Chain Lube)			68	100							
<b>Sogelub (Belgium)</b>	R480											
	R660											curing ovens, paint shops
	R603T											
<b>Statoil (Norway)</b>	ChainWay HT					150						Ester
<b>Steward Enterprise</b>	Synthetic High Temperature Industrial Chain Oil									SAE 250		
<b>Summit (Kluber NA)</b>					CO-95	CO-400	CO-250 (260 cSt)					Diester
<b>Talcor (Australia)</b>	Chain Lube NF											
	HTO Synthetic											
<b>Texaco</b>	Syn-Star Chain Oil 320							(320)				No longer marketed
<b>TEXASTEAL</b>	High Temperature Full Synthetic Lubricant						220	320	460			
<b>Thermal-Lube</b>	XL0895	32	46	68	100		220	320	460	680	1000	
<b>Total</b>	Cortis SHT 200							(220)				
	Synolan 3000-	32			100	150	220					POE
	Syn-Temp Chain	32				150	220	320				Ester
	Syn-Temp M Chain					150	220					Ester
<b>TRC</b>	Synthetic High Heat Chain Oil (ISO 22)											
<b>Tribology</b>	Syntef RC Chain Oil (ISO 2)											
<b>Tech-Lube</b>	T-			3800HT	911HT	38150HT	38220HT	38320HT				
	Trico	100, 101	200 Med	300 Heavy								
<b>Ultrachem</b>	Chemlube		226			5083	224, 225, 801, 5071(all four are ISO 220)					Ester
	Chemlube	215		BC 30	PC 100		FB					Ester
<b>Verkol (Spain)</b>	Synkol	150	250								4000	
<b>Whitmore</b>	Decathalon CCL					150	220					
	Decathalon HTC	940			143-100	143-150	930, 947	142				
<b>Yale Selco (India)</b>	Selco SF-600						(220)					
<b>76 Lubricants</b>	Synthetic Oven Chain Oil				(100)							No longer marketed
	Synthetic Oven Chain Oil 2000							(460)				No longer marketed

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Lubrication Technologies, Inc.  
Houston, TX 77082  
www.lubritecinc.com

# Lubrication Technologies, Inc.

## Synthetic Lubricant Cross Reference Chart Series

### Synthetic AW Hydraulic Oils

	Family Name		ISO 15	ISO 22	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	Remarks
<b>Acculube</b>	ALH		15		32	46	68	100			PAO
<b>Addinol (Germany)</b>	Ecosynth HEES S					<b>46</b>					Biogradable Ester
<b>Allegheny Petroleum</b>	Altra SHL Hydraulic AW				32	46	68				
<b>Aluchem (Italy)</b>	Alusynt DINAL PS				32	46	68	100	150		
<b>Amalie</b>	Ash-less Premium AW Synthetic		15	22	32	46	68	100			Non-zinc
<b>American Agip</b>	SZF		-----	22	32	46	68	100	150	220	PAO
<b>American Lubr.</b>	Syn HP AW Hydraulic Oil				32	46	68	100			PAO
<b>American Synthol</b>	PGHD	10		22	32	46	68				
<b>Amsoil</b>	-----		AWF	AWG	AWH	AWI	AWJ				PAO
<b>Anderol</b>	UH		TBF	TBG	TBH	TBI	TBJ	TBK			Biodegradable
<b>Arpolube</b>	Hydrasyn		15	22	32	46	68	100			PAO
<b>Avia</b>	Synfluid N			22	32	46	68				PAO/Ester
<b>BP</b>	Biohyd SE-S										Biogradable Ester
<b>BVA</b>	SHP-99-AW		15		32	46					Biogradable Ester
<b>C&amp;C Oil</b>	Duration AW				32	46	68	100	150		PAO
	Duration AAW				32	46	68	100	150		ISO 320 also
<b>Cam2</b>	Synthetic Premium Hydraulic				32	46	68	100			Ashless, also ISO 320 thru 3200
<b>Castrol</b>	Tribol BioTop 1448				32	46	68				Biodegradable Ester
	Alphasyn T				32	46	68				PAO
<b>Century/NFO</b>	Synshield HO-PAO				32	46	68				PAO
<b>Champion</b>	Syntinel ESL UL		15	22	32	46	68	100	150		Ester, ashless
<b>Chemtool</b>	CT AW				32	46	68	100			PAO
<b>Chevron</b>	Clarity Synthetic Hydraulic Oil AW			----	10W20	----	----	----			Ashless
<b>CITGO</b>	Dimension					46					Ashless
<b>CLC Lubricants</b>	SLAW/FG		15	22	32	46	68	100			PAO, Food Grade
<b>Cognis</b>	Emgard AW			222	232	246	268	-----			PAO
<b>Conoco</b>	Syncon Synthetic AW Hydraulic Oil			22	32			-----			PAO
	Synterra Hydraulic Oil				32	46	68				POE, non-zinc
<b>CPI</b>	4608-				32	46	68	100			PAO
<b>Dow Chemical</b>	UCON Power Pro AW				32	46	68				PAG
	UCON Trident AW				32	46	68				PAG
	UCON Hydraulic Fluid				FDC-300	FDC-400					PAG
<b>Dow Corning</b>	ISO 32 through 150, DOW CORNING requests they be contacted for further information										PAO
<b>Eurol</b>	Hykrol Bio Syn				32	46					Ester, biodegradable
<b>Fuchs</b>	Renolin PG				32	46					PAG
<b>Gulf Oil Ltd (India)</b>	Harmony Synth				32	46	68	100	150		PAO
	Harmony BioSynth					46					Biodegradable Ester

	Family Name	ISO 15	ISO 22	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	Remarks
<b>Huskey</b>	HI-LO	15	22	32	46	68	100	150	220	PAO
<b>Industrial Oils Utd.</b>	Hysyn			32	46	68	100			PAO
<b>JAX/Behnke</b>	Enviro-Guard			32	46	68	100			Diester
<b>Kluber (Germany)</b>	Klubersynth UH 1 4-			32	46	68	100			PAO
<b>Leahy-Wolf</b>	Synmaster AW			32	46	68	100			PAO
<b>LuBest/Momar</b>	Hydraulic AW			32	46	68	100			PAO
<b>Lubricants USA</b>	see Total									
<b>Lubriplate</b>	Syn-Lube	----	-----	32	46	68	100			PAO, Ashless
<b>Metalcote</b>	MC AW			32	46	68	100			PAO
<b>Mobil</b>	SHC 500	-----	-----	524	525	526	527			PAO
	EAL Enviro-syn			32H	46H	68H	100H			Ester, Ashless
	EAL Syndraulic				46					Ester
<b>Moroil Tech.</b>	AW/AL			32S	46	68	100			
<b>Pacer</b>	Syndrol			32	46	68				PAO
<b>Panolin (Switzerland)</b>	HLP Synth	15	22	32	46	68				
<b>Petronas (Malaysia)</b>	Hidraulik SN PE			32	46	68	100			Biodegradable Ester
<b>Petronomics</b>	PAO AW Hydraulic Fluid	51200	51202	51204	51206	51208	51210			PAO
	PAO Hydraulic Fluid	51224		51226	51228	51230	51232			PAO
	POE Hydraulic Fluid			56440	56442	56444	56446			POE
	Ester Hydraulic Fluid	56720		56722	56724	56726	56728			Ester
<b>Phillips</b>	Syncon Synthetic AW Hydraulic Oil		22	32						PAO
	Synterra Hydraulic Oil			32	46	68				POE, non-zinc
<b>PICO Chemical</b>	Syn AW			32	46	68	100			
<b>Prolab</b>	Hy-Pro			32	46	68	100	150		
<b>PureLube</b>	Pureoil SHO			32	46	68				
<b>Ravenol (Germany)</b>	Frostlube	15	22	32	46					PAO
<b>Royal Lubricants</b>	Royco	-----	-----	732	746	768	786			PAO
	Royco	782								PAO, Aviation
	Royco Turbine Oil	7 cSt at 40C								PAO/Ester, Aviation
<b>Royal Purple</b>	Syndraulic	15	-----	32	46	68	100	150		PAO
	Syndraulic Extreme	-----	-----	32	-----	-----	-----			PAO
<b>Schaeffer</b>	264 Pure Synthetic Hydraulic Oil		-----	32	46	68	100	150	220	PAO, Ashless
<b>Sentinal</b>	SH			10	10/20	20	30			PAO
<b>Sentinel Canada</b>	SenSyn			932	946	968				
<b>Shell</b>	Tellus HD		-----	32	-----	-----	-----			PAO, Ashless
	Naturelle HF-E			32						Biodegradeable Ester
<b>Sinclair</b>	Dyno-Tech AW Hydraulic Fluid	-----	-----	32	46	68	-----	-----		PAO
<b>Statoil (Norway)</b>	HydroWay Bio Pa	-----	22	32	46	-----				PAO
<b>Summit (Kluber NA)</b>	Hysyn	15	22	32	46	68	100	150		PAO
<b>Sun Belgium</b>	Duravis				46					PAO/Ester
<b>Texaco</b>	Hydra (previously Syn-Star Hydraulic)		-----	32	46	-----	-----	-----		Ashless, no longer marketed
<b>Thermal-Lube</b>	XL-7325	15	22	32	46	68	100	150	220	PAO
<b>Total</b>	Synolan AW			32	46	68	100			PAO
	PAG Hydraulic			32	46					PAG, biodegradable
	Biohydran TMP			32	46	68	100			POE
	Biohydran SE			32	46	68				Ester
<b>TribologyTech-Lube</b>	Hyd			32	46	68	100			PAO
<b>Tristate</b>	SY Hydro DE			32	46	68	100			
<b>Ultrachem</b>	Chemlube			724	725	726	727	729	730	PAO

	<i>Family Name</i>	<i>ISO 15</i>	<i>ISO 22</i>	<i>ISO 32</i>	<i>ISO 46</i>	<i>ISO 68</i>	<i>ISO 100</i>	<i>ISO 150</i>	<i>ISO 220</i>	<i>Remarks</i>
<b>U.S. Industrial</b>	USL AW			32	46	68	100			PAO
<b>Wallover</b>	WOCO SHO			32	46	68	100			PAO
<b>Whitmore</b>	Decathalon AW		----	32	46	68	100	----		PAO
<b>Yale-Selco (India)</b>	SF-300			320	46	68				
<b>76 Lubricants</b>	Syncon Synthetic AW Hydraulic Oil		22	32			----			PAO
	Synterra Hydraulic Oil			32	46	68				POE, non-zinc

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# Lubrication Technologies, Inc.

## Synthetic Lubricant Cross Reference Chart Series

### Synthetic Fire Resistant Hydraulic Fluids

	Name	ISO 32	ISO 46	ISO 68	ISO 100	Remarks
<b>Acculube</b>	ALH-FR		46	68		Ester
<b>Addinol (Germany)</b>	Hydraulic Fluid HFC 32-46					Water Glycol
	Hydraulic Fluid HFD 46		(46)			Ester HFDR
	Hydraulic Fluid HFDU 68			(68)		Ester HFD U
<b>Advance Petrochem (India)</b>	Fire Resistant Hydraulic Fluid Phosphate					Phosphate Ester
<b>Allegheny Petroleum</b>	Altrasafe PE		200	300	500	Phosphate Ester
	Altra FR 200 WG		(200)			Water Glycol
<b>Aluchem (Italy)</b>	Alusynt Dinal HFR		46	68	100	
<b>Amalie</b>	Water/Glycol FR Fluid		200			Water Glycol
<b>American Agip</b>	FC 200		FC 200			Water Glycol
	PE 200		PE 200			Phosphate Ester
<b>American Chemical Tech.</b>	FR WG		200-D	300-D		Water Glycol
	FR WG		46-HP			Water Glycol
	EcoSafe FR		46	68	100	POE, HF-D
	EcoSafe EHC		46	68		PAG
<b>American Lubricants</b>	Syn WG FR Fluid		(46)			Water Glycol
<b>Anderol</b>	Bio Guard FRHF		46	68		POE
<b>Aral (Germany)</b>	Montral 44		(46)			Water Glycol
<b>Aztec (UK)</b>	Water Glycol Hydraulic 46		(46)			Water Glycol
<b>BASF</b>	Plurasafe WGF 200D		200	300		Water Glycol, ethylene
	Plurasafe WGF 200E	150	200	300		Water Glycol, diethylene
<b>BP</b>	Enersyn SF-		C 46			Water Glycol
	Enersyn SF-		E 46	E 68		POE
<b>Bechem (Germany)</b>	Hydrostar TE			68S		Water Glycol
<b>Benz Oil</b>	BFR Fluid		46			Water Glycol
	Petraulic Sure Safe					Water Glycol
	Ultraguard 522			68		POE
<b>Caltex</b>	Hydraulic Safety Fluid		(46)			Water Glycol
	RPM FR		46			Phosphate Ester
<b>Cam2</b>	Fire Resistant Fluid FR 200 WG		(46)			Water Glycol
<b>Castrol</b>	Anvol SWX 46 FM		46			HFDU Polyol Ester
	Anvol SWX 68 FM			68		HFDU Polyol Ester
	Anvol WG		46			Water Glycol
	Anvol PE 46		46			Phosphate Ester
	Synthetic Fire Resistant (SFR)		46	68		POE

	Name	ISO 32	ISO 46	ISO 68	ISO 100	Remarks
<b>Castrol (cont')</b>	Hydrasafe 200		(200)			Water Glycol
	Transaqua HT					Water Glycol
	Transaqua DW					Water Glycol
	Tribol 1440					Phosphate Ester
	Tribol 1444-		46	68		POE
<b>Chem-Sol Chemtool</b>	Supreme Performance Fire Retardant Hydraulic Oil (SPFRHF)					Water Glycol
	Chemtolubric					POE
	Lubricast 902 LPC					Water Glycol
	HP-5046					Water Glycol
<b>Chemtura</b>	Reolube HYD 22	32, 32B	46, 46B	68, 68B	100B	Aryl Phosphate
	Reolube Turbofluid	32B GT	46B, 46XC			Phosphate Ester
	Reolube Turbofluid OMTI					Aryl Phosphate
<b>Chevron CITGO</b>	Hydraulic Fluid WG					Water Glycol
	40XD		(46)			Water Glycol
	5046HP		(46)			Water Glycol, High Pressure
<b>Cognis</b>	Breox HL-SC					Water Glycol, Concentrate, Blend with Breox TB grades for HF-C
<b>Conoco</b>	Syndustrial FR Hydraulic Fluid		46	68		POE
	Quintolubric 822-450 Hydraulic Fluid		46	68		POE (Quaker Chemical product)
<b>CPC (Taiwan)</b>	Fire Resistant Hydraulic Fluid (14 cSt at 40C)					
	Fire Resistant Hydraulic Fluid Type II		(39 cSt at 40C)			
	Hydraulic Oil WG		(41 cSt at 40C)			Water Glycol
<b>CPI Engrg. (LZ)</b>	1550-		46			Water Glycol
<b>DA Stuart</b>	Dasco FR 204 B		(46)			Water Glycol
	Dasco FR 205 B		(46)			Water Glycol
<b>Dow Chemical</b>	UCON ADVANTA™ Hydrolube Concentrate					Water Glycol
	UCON Trident AW	32	46	68		Anhydrous PAG
	UCON PowerPro AW	32	46	68		Anhydrous PAG
	UCON Hydrolube HP 5046D		(46)			Water Glycol
	UCON Hydrolube DG-	732	746	760		PAG, Dyed
	UCON Hydraulic Fluid WS-34	(32)				Anhydrous PAG
<b>Elf</b>	see Total					
<b>Exxon</b>	Firex		HF-C 46			Water Glycol, no longer available
	Firex			HF-DU 68		POE, no longer available
	See Mobil					
<b>Forsythe</b>	No-Fire HP-WG-46B		46			Water Glycol
	FR Fluid G 200		46			Water Glycol
<b>Fuchs</b>	Hydrotherm 46 M		(46)			HFC, Water Glycol
	Hydrotherm 68 LW			(68)		HFC-E, Water Glycol
	Renosafe DU 46		(46)			HFD-U
	Plantoflux AT-S		46	68		HFD-U
<b>Gulf Oil International</b>	Turbofluid 46 XC		(46)			Phosphate Ester
<b>Habot (South Africa)</b>	H-5000 series	32	46	68		
<b>Hill &amp; Griffith</b>	Griflube Aquatech FR 200		(46)			Water (Diethylene) Glycol
<b>Houghton</b>	Houghto-Safe		1055, 1110, 1114, 1115, 1120, 1130			Phosphate Ester
	Cosmolubric HF		122, 130, 144, 1530			POE
	Houghto-Safe		200X, 273CF, 620, 419R, 520, 320			Water Glycol
	Cosmolubric B		220, 230			POE



	Name	ISO 32	ISO 46	ISO 68	ISO 100	Remarks
<b>Houghton (cont')</b>	Aqualink 40, 300					Water Glycol
	Aqualink HT-804					Water Glycol
<b>Hydro Safe</b>	Water Glycol 200		(46)			Water Glycol
<b>Igol (France)</b>	Secur Fluid H		(46)			Water Glycol
	Secur Fluid EO					POE
<b>Imperial (Canada)</b>	FIREXX HF-C 46		(46)			Water Glycol
<b>(Esso)</b>	FIREXX HF-DU 46		(46)			POE
	FIREXX HF-DR 46		(46)			Phosphate Ester
<b>INA (Croatia)</b>	INA Hidrafluid HFC					Water Glycol
<b>Irving Oil</b>	Hydraulic Safety Fluid WG	(32)				Water Glycol
	Hydraulic Safety Fluid PE	(21 cSt at 40C)				Phosphate Ester
	Hydraulic Safety Fluid PO			(68)		POE
<b>JAX/Behnke</b>	Pyro Guard Plus					Water Glycol
<b>Larson Chem.</b>	Hydro 1250					Water Glycol
<b>LubePlanet</b>	Fire Resistant Hydraulic Fluid FR-200		(46)			Water Glycol
<b>Lubricants USA</b>	see Total					
<b>Lubrication Engineers</b>	9455 FR Hydraulic Fluid					POE
<b>Metalworking Lubricants</b>	Metsafe FR-200					Water Glycol
	Metsafe FR-310					Phosphate Ester
<b>Metatron (Mexico)</b>	Metatron 610					Water Glycol
	Metatron 611					POE
<b>Mobil</b>	HyJet IV-A plus (ISO 10)					Aviation Phosphate Ester Type V fluid
	Nyvac FR 200D		(46)			Water Glycol
	Pyrogard 53					Phosphate Ester
	Pyrotec HFD 46		(46)			
<b>Monsanto</b>	Pydraul	30E		90E	115E	Phosphate Ester
<b>Moresco (Thailand)</b>	Hydol H-200		(46)			Water Glycol
<b>Moroil Technologies</b>			AW 46 PE			Phosphate Ester
			AW 46 FR			Water Glycol
<b>Morris (UK)</b>	Liquisafe 46		(46)			Water Glycol
<b>Nippon Oil</b>	Hydrando FRX					Water Glycol
	Hydrando FRP		46			Phosphate Ester
<b>Nyco</b>	Hydraunycoil FH	4420	4430	4440	4450	POE, HFDU
	Hydraunycoil FH			4541	4551	Carboxylic Ester
<b>Oiltech</b>	Aerolene SHF					POE
	Hydrofluid HFR			46	68	Ester
<b>OMV (Austria)</b>	OMV hyd HFC			46		Water Glycol
	OMV hyd HFD-U			46		POE
<b>Pennzoil</b>	Glycol FR Fluid			46		Water Glycol
	Pennzsafe FE					Phosphate Ester
	Pennzsafe SL					POE
<b>Performance Filters (PFI)</b>	FRHF-FG	22	32	46	68	POE, H1 Food Grade
<b>Petronas (Malaysia)</b>	Hidraulik Syn FP			(46)		Phosphate Ester
	Hidraulik Syn FR 46			(46)		Water Glycol
<b>Petronomics</b>	POE FR Recirculating Fluid	54100	54104	54106	54112	POE
	Water Glycol FR Hydraulic Fl	55250	55254	55256		Water Glycol
	Water Glycol FR Hydraulic Fl		55260	55262	55264	Water Glycol

	Name	ISO 32	ISO 46	ISO 68	ISO 100	56028	Remarks
<b>Petronomics (cont')</b>	Water Glycol FR Hydraulic Fl	56020	56022	56024	56026	56028	Water Glycol
	POE FR Hydraulic Fluid		58100	58102	58104		POE
<b>Phillips 66</b>	Syndustrial FR Hydraulic Fluid		46	68			POE
	Quintolubric 822-450 Hydraulic Fluid		46	68			POE (Quaker Chemical product)
<b>PICO Chemical</b>	FRHH						POE
	WGHF						Water Glycol
<b>Prista (Bulgaria)</b>	HFC		(46)				Water Glycol
<b>PureLube</b>	PureSafe FR-200		(46)				Water Glycol
	PureSafe FR-310						Phosphate Ester
<b>Quaker Chemical</b>	Quintolubric 888-		46				POE (replaces Quintolubric 822-220)
	Quintolubric 888-			68			POE (replaces Quintolubric 822-300)
	Quintolubric 855			56 cSt at 40C			HFD type
	Quintolubric 822-200		(46)				POE
	Quintolubric 822-300				(68)		POE
	Quintolubric 822-450					(100)	POE
	Quintolubric 888		(46)				POE
<b>Ravenol (Germany)</b>	Hydraulikoel L-HFC	32	46	68			Water Glycol
<b>Repsol (Spain)</b>	Telex Vulcano HFDU			68			POE
	Telex HFC		46				Water Glycol
<b>Royal Manufacturing Schaeffer</b>	FR-40XD		(46)				Water Glycol
	265 Glygo Fluid		(46)				Water Glycol
	620 Syquench			(68)			POE
<b>Sentinel Synthetics</b>	S-FRH	32	46	68			POE
<b>Sentinel Canada</b>	SenSyn PE	32	46	68			Phosphate Ester
<b>Setral (Germany)</b>	HYD SE-HFD 46 EP		(46)				Phosphate Ester
<b>Shell</b>	Irus Fluid C-NA		(46)				Water Glycol (diethylene)
	Irus Fluid DU-NA		46	68			Ester
	Iris Fluid DR						Tri-aryl Phosphate
	Turbo DR		46				Tri-aryl Phosphate
<b>Shell Canada</b>	No Fire WG 200R		(46)				Water Glycol
<b>Sinopec (China)</b>	HFC FR Hydraulic Fluid		40	50			Water Glycol
<b>SLFi</b>	FRHF-	32	46	68			POE
<b>Solutia</b>	Skydrol MCS 2361						Aviation Phosphate Ester
	Skydrol LD-4						Aviation Phosphate Ester
	Skydrol 500B-4						Aviation Phosphate Ester
	Skydrol 5						Aviation Phosphate Ester
<b>Statoil (Norway)</b>	Hydrocor CC 44 MF		(46)				Water Glycol
	Thermac SB 68			(68)			Phosphate Ester
<b>Stirling</b>	Water Glycol HF						Water Glycol
<b>Summit (Kluber NA)</b>	HySyn FR-		46	68			POE
<b>Supresta</b>	Fyrquel	150	220	300	550		Phosphate Ester
	Fyrquel		220N				Phosphate Ester
	Fyrquel		220 MLT				Phosphate Ester
	Fyrquel EHC, EHC-N, EHC-S		(46)				Phosphate Ester
	Fyrquel L						Phosphate Ester
	Fyrquel GR		46	68			Phosphate Ester

	Name	ISO 32	ISO 46	ISO 68	ISO 100	Remarks	
<b>Supresta (cont)</b>	Fyrquel GT					Phosphate Ester	for Gas Turbine Bearings
	Fyrquel LT					Phos. Ester/AB	low temp applications
	Fyrlube 15					Phosphate Ester	low temp properties
<b>Tecnifos (Argentina)</b>	Lubrisix		200	300		POE	
<b>Texaco</b>	Hydraulic Safety Fluid (766)		(46)			Water Glycol	No longer marketed
<b>Thermal-Lube</b>	XL-5000	32	46			Water Glycol	
	XL5168			68		POE	
<b>Total</b>	Hydransafe HFC146		(46)			Water Glycol	
	Hydransafe HFDU46		(46)			POE	
	Hydransafe FR NSG 38		46			Phosphate Ester	
	Hydransafe FRS	32	46			Phosphate Ester	
	Hydransafe HFDU LC 168			68		Phosphate Ester	
	Hydransafe WG		46			Water Glycol	
	FR Biohydran		46			Glycol	
<b>Tower</b>	FR Fluid 40		(46)			Water Glycol	
<b>Tribology Tech-Lube</b>	FRH 200		(46)			POE	
	600 WS					Water Glycol	
<b>Tri State Industrial</b>	AFHAW					Water Glycol	
<b>Unicorn (Singapore)</b>	Hydraulic HFC 46		(46)			Water Glycol	
<b>Uniqema/Croda)*</b>	Emkarox HV20 & HV45 base stock					HFC type, Water Glycol	
	Prolube 1446, 1556, 1427, 2082, 2031, 1445 base stock					HFD-U type, POE	
<b>U.S. Industrial Lubricants</b>	Apollo 46 FRH		(46)			POE	
<b>Veloil (Thailand)</b>	Indpro Fire Safe WG 46		(46)			Water Glycol	
<b>Verkol (Spain)</b>	Resfluid HFDU			68		POE	
	Glynkol		46			Water Glycol	
<b>Wallover</b>	WOCOSAFE		46WG			Water Glycol	
<b>Yale Selco (India)</b>	Selco Hydrolube SF-315		(46)			Water Glycol	
	Selco Hydrolube SF-316		(46)			Water Glycol	
<b>76 Lubricants</b>	Syndustrial FR Hydraulic Fluid		46	68		POE	
	Quintolubric 822-450 Hydraulic Fluid		46	68		POE (Quaker Chemical product)	

#### Fire Resistant Hydraulic Fluid Legend

HFA	95/5 fluids, or high water content hydraulic fluids, or oil-in-water emulsions
HFB	water in oil emulsions, often referred to as 60/40 or invert emulsions
HFC	water/glycol hydraulic fluid
HFD	water-free synthetic fire resistant hydraulic fluid based on organic esters, typically phosphate ester
HFD-U	water-free synthetic fire resistant fluids based on polyol esters

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# Lubrication Technologies, Inc.

## Synthetic Lubricant Cross Reference Chart Series

### Synthetic Heat Transfer Fluids

	Series Name	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	Remarks
<b>Acculube</b>	ALHT 50HT, 100HT, 150HT							PAO		
<b>Addinol (Germany)</b>	Heat Transfer Oil XW 15 (23 cSt at 40C)		XW 27 (45 cSt at 40C)							Alkylated Aromatic Hydrocarbon
<b>Aegean (Greece)</b>	Alfathermo	32	46							
<b>Aluchem (Italy)</b>	Thermolube 32	(32)								hydrogenated t-phenyl
	Thermolube 12 (22)									mix alkylbenzene/ hydrogenated t-phenyl
	Thermolube S			68			220			hi-temp stabilised methylsiloxane
	Alusil D		46	68	100	150	220	320	460	Silicone, also 680 & 1000
<b>American Synthol</b>	Ameritemp HTF	32		68	100					
	Ameritemp HTF-DE	(32)								
<b>Cam2</b>	Synthetic Heat Transfer Oil		(46)							
<b>Dow Chemical</b>	Dowtherm A									Biphenyl & Diphenyl Oxide, Liquid & Vapor Phase
	Dowtherm G									Di- & Tri Aryl Ether Mixture
	Dowtherm J									Isomers of Alkylated Aromatic, Liquid & Vapor Phase
	Dowtherm MX									Alkylated Aromatic Mixture
	Dowtherm Q									Diphenylethane & Alkylated Aromatic Mixture
	Dowtherm RP									Diaryl Alkyl
	Dowtherm T ISO 15									Alkyl Benzene
	Dowtherm HT									
	Dowtherm 10									Ethylene Glycol
	Dowtherm 4000									Ethylene Glycol
	Dowtherm SR-1									Ethylene Glycol
	Norcool Fluids									Ethylene Glycol
	Syltherm 800 (9.1 cp @25C)									Silicone, Dimethyl Polysiloxane
	Syltherm XLT (1.4 cp @25C)									Silicone, Dimethyl Polysiloxane
	Syltherm HF (1.7 cp @25C)									Silicone, Dimethyl Polysiloxane
	Dowfrost & Dowfrost HD									Propylene Glycol, for HVAC
	Dowcal 10, 20G, N									Ethylene Glycol, for HVAC
	UCON Heat Transfer Fluid 500			61 cSt at 100F						Water Soluble PAG
	UCON Heat Transfer Fluid 50-HB-260-Y3			56 cSt at 100F						Water Soluble PAG
	UCARTHERM PM6141									Ethylene Glycol, for HVAC
	UCARTHERM PM6195		(46)							Undyed Ethylene Glycol, for HVAC
<b>Duratherm</b>	Duratherm G									PAG
	Duratherm S (32)									Silicon
	Duratherm LT (7.7 cSt at 40C)									PAO

	Series Name	ISO 15	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	Remarks
<b>Dynalene</b>	600										Silicone
	HT										PAO
	SF										Alkylated Aromatic
	EG										Ethylene Glycol
	PG										Propylene Glycol
<b>Eurotherm (Netherlands)</b>	Eurotherm ET										
<b>Exxon</b>	COOLANOL	20 (2 cSt at 40C), 25R (4 cSt at 40C), 35R (6.5 cSt at 40C), OS-59 (7 cSt at 40C), 45R (12 cSt at 40C)									Silicate Ester
<b>Gelest</b>	PDM-082										Silicone
	DMS-T21										Silicone
	FMS-131										Silicone
	DES-T12										Silicone
<b>Habot (So. Africa)</b>	H-HTO										
<b>Houghton Chemical</b>	Wintrex										Ethylene Glycol
	SAFE-T-THERM										Propylene Glycol
<b>Igol (France)</b>	Sonitherm S12										
<b>Interlube</b>	Heat Transfer Fluid										
<b>Lubricants USA</b>	Syn Heat Transfer Fluid		(32)								PAO
	See Total										
<b>Lubricating Spec.</b>	Synthetic Heat Transfer Fluid		32								
<b>Lubricon</b>	Ultrachem Chemlube 228			(46)							PAO/Diester (see Ultrachem below)
<b>Mobil</b>	COOLANOL	20 (2 cSt at 40C), 25R (4 cSt at 40C), 35R (6.5 cSt at 40C), OS-59 (7 cSt at 40C), 45R (12 cSt at 40C)									Silicate Ester
<b>Pacific Fluids</b>	Triatherm 750VP										Diphenyl Oxide & Biphenyl Mixture
	Triatherm 660LP										Isomeric Dibenzyltoluenes
	Triatherm 600LP		(12.7 cSt at 40C)								
	Triatherm 550LP										
	Triatherm 500LP										
<b>Performance Filters</b>	HTF-FG		32		68	100					H1 Food Grade
<b>Petro-Canada</b>	CALFLO LT		(7.5 cSt at 40C)								PAO
<b>Petronomics</b>				51260	51262	51264					PAO
<b>Ravenol (Germany)</b>	Warmetrageroel		S32								
<b>Radco</b>	Xceltherm MK1										Diphenyl Oxide, Liquid & Vapor Phase
	Xceltherm LV1										Diphenyl Oxide, Liquid & Vapor Phase
	Xceltherm HT										Aromatic Hydrocarbons
	Xceltherm XT										Diphenylethane
	Xceltherm 315										Alkylate
	Xceltherm 500										PAO
<b>Repsol (Spain)</b>	Multigrado Termico Sintetico (16 cSt at 40C)										
<b>Royal Purple</b>	Hy-Therm 707		32								
<b>Sasol</b>	Marlotherm N		(14 cSt at 40C)								
	Marlotherm SH		(16.5 cSt at 40C)								
	Marlotherm LH		(2.6 cSt at 40C)								Liquid & Vapor Phase
	Marlotherm X		(1 cSt at 40C)								
<b>Schaeffer</b>	281S Pure Synthetic Heat Transfer Fluid (ISO 32)										PAO
<b>Sentinel</b>	SENTITHERM		(46)								PAO, Food Grade

	Series Name	ISO 15	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	Remarks
<b>SLFi Solutia</b>	HTF 32, 68, 100										
	Therminol VLT										Liquid Phase for Very Low Temperatures
	Therminol D-12	(1.23 cSt at 40C )									Liquid Phase PAO
	Therminol LT	(0.8 cSt at 40C )									Alkyl Substituted Aromatic, Liquid & Vapor Phase
	Therminol 55	(19 cSt at 40C)									PAO
	Therminol 59	(4 cSt at 40C)									Alkyl Substituted Aromatic
	Therminol 62	(10.7 cSt at 40C)									
	Therminol VP-3	(2 cSt at 40C)									Phenylcyclohexane/Bicyclohexyl Liquid & Vapor Phase
Therminol 75										Terphenyl/Quaterphenyl	
Therminol VP-1	(2.5 cSt at 40C)									Biphenyl/Diphenyl Oxide, Liquid & Vapor Phase	
Therminol FF											PAO Heat Transfer Flushing Fluid
Therminol ADX-10	(4 cSt at 40C)										
Therminol ALD			32								
Therminol SP	(19 cSt at 40C)										
<b>Summit (Kluber NA)</b>	Thermoyle	50 HT (ISO 5), 100HT (ISO 20), 200HT (ISO 32), 300HT (ISO 46)									PAO
<b>Thermal Fluids Inc.</b>	ThermalCool										Ethylene Glycol
	ThermalSafe										Propylene Glycol
<b>Thermal-Lube</b>	XL0860	22	32	46	68	100	150				PAO
	XL0866		32	46		100		220		460	PAG
<b>Total</b>	Synthetic HT Fluid		32								
	Seriola DBT	17									
	Jarytherm DBT	19									
	Jarytherm AX 320	(10 cSt)									
	Jarytherm BT 06	(4 cSt)									
<b>Tribology Tech-Lube</b>	HOT 600			46							
<b>Ultrachem</b>	Chemlube 228			(46)							PAO/Diester

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# Lubrication Technologies, Inc.

## Synthetic Lubricant Cross Reference Chart Series

### Other Misc. Synthetic Industrial Lubricants

(Products Not Included in Previous Industrial Synthetic Lubricant Charts)

	Series Name	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	Remarks
<b>Acculube</b>	ALST	32	46							PAO Gas Turbine Oil
	Seal Fluid	32								Barrier Fluid
	ALBL						220	320		Blower Oil
<b>Addinol (Germany)</b>	Weapon Oil W 18									for Cleaning of Weapons
<b>Aluchem (Italy)</b>	Alusynt Texil S	22	32	46						Textile Knitting Oil
	Alusynt Texil SL	22	32	46						Textile Knitting Oil, also ISO 10
	Alusynt PF	22	32							Airline Oil, also ISO 15
	Alusynt FGL	(ISO 5, 15, 22)								H1 Food Grade Airline Oil
<b>American Agip</b>	Synthetic Open Gear Lube									Open Gear Lube
<b>American Synthol</b>	SSCL								460	Steam Cylinder, ISO 680 & 1000 also
	STL	32	46	68						Turbine Lube
<b>Anderol (Chemtura)</b>	610 ISO 22									PAG Synthetic Textile Oil
	3832	(32)								Gas Turbine Oil
	PumpJack 150									Pump Jack Oil
<b>Aral (Germany)</b>	Farolin DBT Synth	(17 cSt at 40C)								Syn. Thermal oil
	Vitamol 4517	(32)								PAO Shock Absorber Oil
<b>Becker</b>	Premium Synthetic Oil									Vacuum Pump Oil
<b>BP</b>	Dielectric Fluid 200T	(1.92 cSt at 40C)								Electro Discharge Machine Fluid
<b>BVA</b>	Vac series	Vac 32	Vac 235	Vac 68	Vac 535					Vacuum Pump Oil
	PAO Vac series	15	32	68	100					PAO Vacuum Pump Oil
	AL series	AL 32	AL 46	AL 68						Air Line Lube
<b>Castrol</b>	Tribol						290			Trolley Wheel Bearing Oil
<b>Chevron</b>	Clarity Synthetic Paper Machine Oil				100	150	220	320	460	Paper Machine Oil
	Synthetic Turbine Oil SGT	32								POE Industrial Gas Turbine Oil
	Tegra Syn Barrier Fluid	(ISO 15/20)								PAO Mechanical Seal Barrier Fluid
<b>CITGO</b>	Clarion Synbar	5, 22								Mechanical Seal Barrier Fluid
	Pacemaker ST	32								PAO Gas Turbine
	CompKleen Synthetic Cleaner				(74 cSt at 40C)					Compressor Cleaner
<b>Cognis</b>	Emgard Mist						220		460	Mist Oil
<b>Conoco</b>	Syncon WTL							320		PAO Wind Turbine EP Gear Oil
	Syncon Turbine Oil	22/32								POE Gas Turbine Oil
	Syncon Barrier Oil	(5 cSt at 40C)								PAO Mechanical Seal Barrier Fluid
	Syncon Mist Oil									PAO EP Gear Oil for Mist Systems
	Syndustrial PAG Compressor Oil		46	68	100					PAG Natural Gas Compressor Lube
	Bio Syn Wire Rope Lubricant	32								Biodegradable Wire Rope Lubricant
	SynXPA Bio-Syn Wire Rope Lubricant	(ISO 32)								Ester Biodegradable Wire Rope Lubricant

	Series Name	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	Remarks
<b>Dow Chemical</b>	UCON Calender Lubricant							20, 35, 51, 51K*		PAG Calender Lubricant, * all 4 very heavy
<b>Dow Corning</b>	561 Transformer Fluid									Silicone Transformer Oil
<b>Dylon</b>	LB-3159									Bearing Lube
	Sugar Glide Premium Journal Bearing Lubricant									Sugar Mill Lube
<b>Habot (So. Africa)</b>	H-TFO									Dielectric Fluid
<b>Hatco (Chemtura)</b>	Hatcol 5005									POE Transformer/Dielectric Fluid
	Hatco		3214 (25 cSt)							Turbine Lubricant, for rebranding only
<b>Industri-Lube</b>	I-SVO	15	32	46	68	100				Vacuum Pump Oil
	I-SBO						220	320		Blower Oil
<b>Kaeser</b>	Omega SB					150	220	320		Blower Oil, PAO
<b>Keystone</b>	Kilfrost		46							Airlines & Air Tools
<b>Kluber (Germany)</b>	AIRPRESS	15	32		68					
<b>Lubcon (Germany)</b>	Turmosol M 50									for impregnated sintered bearings
<b>Lubricants USA</b>	see Total									
<b>Lubrication Engrs.</b>	5180-5183 Pyroshield									EP Lead-Free Open Gear Lubricant
	9000, 9001 Pyroshield Syn-Gear Lubricant									EP Open Gear Lubricant
<b>Mobil</b>	SHC PM						220	320	460	PAO Paper Machine Oil
	SHC (800 series)		824	825						PAO Turbine Oil
	Synturon 6 (ISO 5)									PAO Mechanical Barrier Seal Fluid
	Wyrol DF 26									Separator Lubricant for Alum Foil Manufacturing
<b>Nye</b>	NyeTorr									Vacuum Pump Oils
	Nyebar Type Q									Fluorocarbon Barrier Fluid
	132B Synthetic Oil	ISO 15								PAO Impregnating Oil for Sintered Bearings
	181B Synthetic Oil				(60 cSt)					PAO Impregnating Oil for Sintered Bearings
	188B Synthetic Oil					(110)				PAO Impregnating Oil for Sintered Bearings
	310B Synthetic Oil								(550 cSt)	PAO Impregnating Oil for Sintered Bearings
	634B, 605, 590 Oil		(range from 35 cSt to 54 cSt at 40C)							Polyester Sintered Bearing Impregnating Oil
<b>Pennzoil</b>	Pennzane X2000									Low Volatility PAO Vacuum Fluid
<b>Perf. Filters (PFI)</b>	SVAC-	15	32	46	68	100				Vacuum Pump Oil
	STL-		32	46	68					Turbine Oil
	SBL-						220			Blower Fluid
<b>Petro-Canada</b>	HARNEX							320		PAO Wind Turbine Gear Fluid
	AJT 6000/TURBONYCOIL 600 (25.6 cSt at 40C)									POE Land Based Jet Turbine Oil
<b>Petron (Philippines)</b>	Gear Shield Synthetic									Open Gear Lube
<b>Petronomics</b>			51110		51114	51116				PAO Mist Oil
	Syn. PAO Gas Turbine Oil		51240	51242						PAO Gas Turbine Oil
	Syn. PAO Paper Machine Oil						51245	51247	57220	PAO Paper Machine Oil
	Syn. PAO Vacuum Pump Oil		51274		51276	51278				PAO Vacuum Pump Oil
	Syn. POE Escalator Lube			53048						POE Escalator Lube
	Syn. PAO Mist Oil						56656		56658	PAO Mist Oil
	Syn. Silicone Compressor Oil		56490	56492	56494	56496	56498			Silicone Compressor Oil
	Silicone Gas & RS Compressor		56500	56502	56504	56506	56508	56510	56512	Silicone Compressor Oil
	Syn. Silicone Compressor Oil		56520	56522	56524	56526	56528	56530	56532	Silicone Compressor Oil
	Syn. PAO Blower Lube						56690	56692		PAO Blower Lube
	Syn. PAO Marine Gas Turbine Oil		58130							PAO Marine Gas Turbine Oil
	Syn. PAO Ail Line Oil		58215		51460					PAO Ail Line Oil



	Series Name	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	Remarks
<b>Phillips</b>	Syncon Mist Oil				100					PAO EP Gear Oil for Mist Systems
	Syncon WTL							320		PAO Wind Turbine EP Gear Oil
	Syncon Turbine Oil	22/32								POE Gas Turbine Oil
	Syncon Barrier Fluid (ISO 5)									PAO Mechanical Seal Barrier Fluid
<b>Primrose</b>	Syndustrial PAG Compressor Oil		46	68	100					PAG Natural Gas Compressor Lube
	788 Syn-O-Gen	32 (SAE 10W)		46-68 (SAE 0W-30)						PAO Turbine, Hydraulic, Compressor Fluid
	750 Syn-O-Gen						(220)			Tenter Frame Oil
<b>PureLube</b>	SYN-AL (22)									Air Line Lubricant
<b>Royal Lubricants (Chemtura)</b>	Royco 500 Turbine Oil	32								Ester Stationary Turbine Oil
	Royco	627								PAO Vacuum Pump Oil
<b>Royal Purple</b>	Synmist	32	46	68	100	150	220	320	460	Mist Oil
	Synthetic Transformer Oil									Transformer Oil
	Syn-way	32		68	100		220			Way & Slide Oil
	Acivac									Vacuum Pump Oil
<b>SantoLubes</b>	Barrier Fluid GT 22									Mechanical Seal Barrier Fluid
	Santovac OS-105									PPE Ultra High Vacuum Difusion Pumps
	Santovac OS-113									PPE Ultra High Vacuum Difusion Pumps
	Santovac OS-124									PPE Ultra High Vacuum Difusion Pumps
	Santovac OS-138									PPE Ultra High Vacuum Difusion Pumps
	Santovac 5									PPE Ultra High Vacuum Difusion Pumps
	Santovac 5P Ultra									PPE Ultra High Vacuum Difusion Pumps
	Santotrac 32									PAO Traction Lubricant
	Santotrac 50	(32)								PAO Traction Lubricant
	Santotrac 70				(120 cSt at 40C)					PAO Traction Lubricant
<b>Sentinel</b>	Santotrac 100				(105 cSt at 40C)					PAO Traction Lubricant
	SYNVAC	32	46	68	100					PAO, Vacuum Oil
	ALO #5		(46)							Airline Oil
	Turbine Oil	32	46	68	100	150	220			Turbine Oil
	S-RC #1									Roller Chain Oil
	ST-WR 1-2, XL									Wire Rope Lube
	Spindle Oil L, LM, M, MM, H									Spindle Oil
	S Way Oil 10-50									Machine Way Oil
	SEN-NIT XL, L, M, H									Textile Knitting Oil
	<b>Shell</b>	Torcula DE Fluid	32		68					
Turbo Fluid SG 32		32								PAO Industrial Gas Turbinr Lube
Barrier Fluid (ISO 5)										Mechanical Seal Barrier Fluid
<b>SLFi</b>	SBL-220									Rotary Lobe Blower Lubricant
	SVAC 15, 32, 46, 68, 100									Vacuum Pump Fluid
<b>Statoil (Norway)</b>	TurboWay GT	32	46							Turbine Oil, Solar ES 9-224
	TurboWay SE		46							Turbine Oil, Ester
	TurboWay SE LV	32								Turbine Oil, Ester
	Reneta VL 46		(46)							Turbine Support Bearing Oil, PAO
<b>Summit (Kluber NA)</b>	PaperWay PA 220						(220)			Paper Machine Oil
	SBL-						220	320		PAO Blower Lubricant
	SBL-						220F	320F		PAO Blower Lubricant, Food Grade, Kosher
	SH-	32T	46T							PAO, Gas Turbine Lubricant
	SHV-	15, 22	32		68	100				PAO Vacuum Pump Lubricant

	Series Name	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	Remarks
<b>Summit (Kluber NA (cont))</b>	Syngard	32		68						PAO Airline Lubricant
	Barrier Fluid 5 (ISO 5)	E								PAO, Barrier Fluid, Kosher
<b>Superior Industries</b>	STL-9100/	32	46	68	100	150	220			Turbine Oil
<b>Supresta</b>	Fyrquel GT									Phosphate Ester Gas Turbine Lube
<b>Total</b>	Synthetic Ring Oil 22									Textile Oil
	Misola MAP SH					150	220	320	460	PAO Ashless PMO
	Pneuma SY 15									PAG, Pneumatic Systems
	Synolan Barrier Fluid 5									PAO, Barrier Fluid
<b>Tribology Tech-Lube</b>	T-GPO				10/50	30/90				General Purpose Synthetic Oil
	Hydraulic, Gear and Chain Flush Guard									Tri Biodegradable Oils
	Flushall									Flushing Fluid
<b>TS Moly Lubr.</b>	CX-154									Flushing Fluid
	CX-162									for O-rings, gaskets, packing
<b>Tuthill (Kinney)</b>	Tuthill S500				(100)					Air Line Oil
	Kinney POE			68						Diester Vacuum Pump Oil
<b>Ultrachem</b>	Chemlube 10, 10E ISO 10									POE Vacuum Pump Oil
	Chemlube 22, 22E ISO 22									High Speed Textile & Machine Tool Spindle and Air Tool Oil
	Chemlube 46, 46E ISO 46									High Speed Textile & Machine Tool Spindle and Air Tool Oil
	Pneu Mist 5075, 325 ISO 32, 100									High Speed Textile & Machine Tool Spindle and Air Tool Oil
	Syntroil 220			330	440 (82 cSt at 100F)					Airline Mist Lubricant
	Syntroil				440G (82 cSt at 100F)					Impregnating Oil for Sintered Bearings
	Syntroil				550 (134 cSt at 100F)					contains 0.3 to 0.5% Graphite
<b>Whitmore</b>	Decathalon Gold									Impregnating Oil for Sintered Bearings
<b>Wunsch (Germany)</b>	Syntholube CLP-TS PM					150	220	320	460	ISO 3200 Open Gear Lube Oil
	Panolin HLP Synth 15 & 46									Paper Machine Oil
<b>Zeller+Gmelin (Germany)</b>	TEXTOL SYN 32 (32)									Ester Hydraulic Oil
	TEXTOL RLS 15		46	68						for circular knitting machines
<b>76 Lubricants</b>	Syncon Barrier Oil (5 cSt at 40C)									traveler oil for sintered metal rings
	Syncon Mist Oil				100					PAO Mechanical Seal Barrier Fluid
	Syncon WTL							320		PAO EP Gear Oil for Mist Systems
	Syncon Turbine Oil 22/32									PAO Wind Turbine EP Gear Oil
	Syndustrial PAG Compressor Oil		46	68	100					POE Gas Turbine Oil
										PAG Natural Gas Compressor Lube

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## Synthetic Lubricant Cross Reference Chart Series

### Synthetic Passenger Car Motor Oils

	<i>Series Name</i>	<i>Mono-viscosity SAE Grades</i>	<i>Multi-viscosity SAE Grades</i>	<i>Remarks (see note 3 below)</i>
<b>Accor (France)</b>	Husynn Synthèse		0W-30, 5W-40	API SM/CF
<b>Addax (Korea)</b>	Super Gorilla XQ			API SL, contains moly
<b>Addinol (Germany)</b>	Extra Light MV 038		0W-30	API SM/CF, ACEA A3/B3/B4
	Mega Light MV 039		0W-30	ACEA A5/B5, VW 503.00/506.01
	Ultra Light MV 046		0W-40	API SM/CF, ACEA A3/B3/B4
	Super Power MV 0537		5W-30	API SM/CF, ACEA A3/B3/B4
	Super Light MV 0546		5W-40	API SM/CF, ACEA A3/B3/B4
	Super Visco MV 0556		5W-50	API SM/CF, ACEA A3/B3/B4
<b>Add Oil (Malaysia)</b>	Hipro Synctex Ultra		5W-40	API SM/CF
<b>ADNOC (Abu Dhabi)</b>	Image		5W-40	API SL/CF, ACEA A3/B3
<b>Advancelub (Malaysia)</b>	MOS M-Syn 300 Fully Synthetic		5W-30	API SM/CF
	MOS M-Syn 400 Fully Synthetic		5W-40	API SM/CF
<b>Agip</b>	Tec sint		5W-30	API SL/CF, ACEA A3/B3
	Tec sint SL		5W-40	
	Tec sint SX		0W-40	API SJ/CF, ACEA A3/B3/B4
	7005		0W-30	ACEA A1/B1, VW 503.00/506.00
	7006		0W-40	API SJ/CF, ACEA A3/B3/B4, VW 503.01
	Formula LL G		5W-30	
	Formula LL B01		0W-30	API SL/CF, ACEA A3/B3/B4
	SINT 2000		10W-40	API SJ/CF, ACEA A3/B3/B4
	Formula LL SYN		10W-40	API SJ/CF, ACEA A3/B3
	Formula LL Plus			API SJ/CF, ACEA A3/B3
	Extra HTS		5W-40	API SL/CF, ACEA A3/B3
	Racing		10W-60	
<b>Akpet (Turkey)</b>	Atlantis		5W-40	API SJ/CF, ACEA A3/B3
<b>Alhamrani-Fuchs (Saudi Arabia)</b>	Titan Supersyn SL		5W-50	API SL/CF
<b>Allegheny Petroleum</b>	Altra SHL Motor Oil		5W-20, 5W-30, 10W-30, 5W-40W	
<b>Aluchem (Italy)</b>	Alusynt E		20W-50	API SH/CD/CE, CCMC G4/PD2
<b>Amalie</b>	Elixir Synthetic Motor Oil		5W-30, 10W-30, 15W-50	API SM/CF
	Rallye 100% Synthetic		5W-30, 5W-50, 15W-50	API SL/CF
	Value Tech 100% Synthetic		5W-30, 5W-50, 15W-50	API SL/CF
	Xcel 100% Synthetic		5W-30, 5W-50, 15W-50	API SL/CF
<b>Amalie Petroquimica (Spain)</b>	Elixir Synthetic Motor Oil		5W-30, 5W-40, 10W-40	API SL/CF
	A-Synt 505		5W-40	
	A-Synt 525		5W-40	API SL/CF
	A-Synt 506		0W-30	

	<i>Series Name</i>	<i>Mono-viscosity SAE Grades</i>	<i>Multi-viscosity SAE Grades</i>	<i>Remarks (see note 3)</i>
<b>American Agip</b>	Synthetic PC		5W-30, 5W-40, 5W-50, 10W-30	API SM/CF, ACEA A3/B3/B4
<b>American Hi-Tech (Amtecol)</b>	Super Life 9000 Premium		5W-30, 10W-30, 10W-40, 15W-40, 20W-50	API SM
<b>American Oil &amp; Supply</b>	Fully Synthetic Motor Oil		5W-30, 10W-30, 15W-50	API SM
<b>American Synthol</b>	Amerilube Eagle G-4		5W-30, 5W-40, 10W-50	
<b>Amoil Sdn. Bhd. (Malaysia)</b>	Sonic 1		10W-40	API SL/CF
	Syngard 1		5W-50, 10W-60	API SL/CF Racing Oil
<b>Amsoil</b>		AHR (60)		API SL/CF
			SSO (0W-30)	API SM/CF, ACEA A5/B5
			RD20 (5W-20), RD30 (10W-30) and RD50 (15W-50)	Racing Oil
			XLM (5W-20), XLF (5W-30), XLT (10W-30), XLO (10W-40)	API SM/CF, ACEA A1/B1
			ASL (5W-30), ATM (10W-30)	API SM/CF, ACEA A5/B5
			AMO (10W-40), ARO (20W-50)	API SL/CF/CI-4, ACEA A3/B3/E5
			AFL (5W-40)	API SM/CF, ACEA A3/B4/C3
			ASM (0W-20)	API SM/CF, ACEA A1/B1
<b>Amtecol</b>	Super Life 9000		5W-30, 10W-30, 10W-40, 15W-40, 20W-50	API SL
<b>April Superflo (Canada)</b>	Superpro RXL 1		5W-20, 5W-40	API SM/CF
<b>Aral/BP (Germany)</b>	SuperSynth		0W-40	API SJ/CF, A3/B3
	SuperTronic G		0W-30	API SL/CF, ACEA A3/B4/C3
	SuperTronic Low Saps		0W-40	API SM/CF, ACEA A3/B4/C3, Low Saps
<b>Auto-Sense (Canada)</b>	Prolube 100% Synthetic		5W-30, 10W-30	API SL
<b>AVIA (France)</b>	AVIASYNTH PD Longlife		0W-30	ACEA A5/B5
	AVIASYNTH III Longlife		5W-30	ACEA A3/B4/C3
<b>Bardahl</b>	XHD Pure Synthetic Motor Oil		5W-40	API SL/CF, ACEA A3/B3
	XTC Pure Synthetic Motor Oil		5W-40	API SJ/CF, ACEA A3/B3
<b>Bardahl A&amp;L Ltd.</b>	XG Synthetic		5W-20	API SM/CF
<b>Bigo (Taiwan)</b>	Hercules Fully Synthetic		0W-40, 5W-30, 5W-40, 5W-50, 10W-40, 10W-60	API SM/CF
<b>BG Products</b>	Hi-LOW30		0W-30	
	5W-30 Synthetic Engine Oil		5W-30	
<b>BMW</b>	High Performance Synthetic Engine Oil		5W-30, 5W-40	
<b>BP</b>	Visco Supreme		5W-30, 10W-30	API SL/CF
<b>Caban</b>	SYNIC		5W-30, 10W-30, 10W-40, 5W-50	API SJ/CG-4
<b>Caltex</b>	Havoline Synthetic		5W-30, 10W-30, 5W-40	API SM/CF
<b>Caltex Singapore</b>	Havoline Fully Synthetic		5W-40, 10W-50	API SL/CF
<b>Cam2</b>	Synavex		5W-20, 5W-30, 10W-30	API SM
	Synavex Select		5W-30, 10W-30	API SM, ACEA A1/A3
<b>Carl Bechem (Germ.)</b>	Staroil Synergie Alpha		5W-40	API CD/SH
<b>Castrol</b>	Edge Synthetic		5W-30, 10W-30	API SM/CF, ACEA A1/A5/B1/B5
	SLX Professional OE		5W-30	API SL/CF, ACEA A3/B4/C3
	Syntec		0W-30, 5W-20, 5W-30, 10W-30, 5W-40, 10W-40, 5W-50	API SM/CF, ACEA A3/B3/B4
	Formula R Synthetic		5W-30, 0W-40, 10W-60	API SL/CF, ACEA A3/B3/B4
<b>Castrol Canada</b>	Syntec Full Synthetic		5W-20	API SM/CF
<b>C&amp;C Oil</b>	PCMO Synthetic Engine Oil		5W-30, 10W-30, 15W-50	API SL
<b>Centoil (Greece)</b>	Centurion Synth		15W-40	

	<i>Series Name</i>	<i>Mono-viscosity SAE Grades</i>	<i>Multi-viscosity SAE Grades</i>	<i>Remarks (see note 3)</i>
<b>Cepsa (Spain)</b>	Star Eco Synthetic		0W-30, 5W-30	ACEA A5/B5, API SL/CF
	Star Mega Synthetic		0W-30, 5W-30, 5W-40	ACEA A3/B4, API SL/CF
	Star TDI Synt		5W-30, 5W-40	ACEA A3/B4, API SL/CF
<b>Chalet</b>	Preferred Synthetic		5W-30, 5W-50	
<b>Champion</b>	HTS		5W-30, 15W-40	11 TBN, 1.4% ash, API CI-4/SL
<b>Champion Belgium</b>	Syntolube		5W-40	API SL/CF, ACEA A3/B3
<b>Chevron</b>	Supreme Synthetic M.O.		5W-20, 5W-30, 10W-30, 5W-40	API SM/CF
<b>Chin Chen Hui (Taiean)</b>	Dragon Energy Fully Synthetic		5W-30, 5W-40, 5W-50, 10W-30, 10W-40	API SM
<b>CHS/Cenex</b>	Maxtron Full Synthetic		5W-20, 5W-30, 10W-30	API SM
<b>Chugoku-Kogyo (Jpn)</b>	Indy 500		0W-30, 0W-50	
<b>Citgo</b>	SUPERGUARD Synthetic Motor Oil		5W-20, 5W-30, 10W-30	API SM, ACEA A1/A3
<b>COASTAL Blending</b>	Advant		5W-40	API SM, ACEA A3/B3/B4 (04)
<b>&amp; Packaging</b>	Irving Max 1 Advanced Synthetic		5W-20, 5W-30, 5W-40, 10W-30, 10W-40	API SM
	Irving Max 1 Advanced Synthetic		0W-30, 0W-40, 5W-50	No Approval
	Irving Synthetic Racing		approximately 5W-30	Track use only
<b>Cognis</b>	Emgard 2811		5W-30	
<b>Colorado Petroleum</b>	Silverstate Fully Synthetic		0W-20	API SM
<b>Comercial Import (Mex)</b>	Q Advanced Full Syn		5W-50	API SM/CF
<b>Conoco</b>	Syncon High Perf Syn M.O.		5W-30	API SM
<b>CO-OP Egypt</b>	CO-OP 1 Extra			API SL/SJ/CG4
<b>CPC (Taiwan)</b>	CMC 100% Synthetic		10W-40	API SL
	Mirage Pro Fully Synthetic		10W-40, 5W-50	API SL
	Fully Synthetic Racing Oil		10W-40	API SG/CD
<b>Cross Oil R&amp;M</b>	Syngard 7500 Full Synthetic		5W-30, 5W-40	API SM
<b>Cyclon (Greece)</b>	F1 Synthetic M.O.		5W-40, 10W-40, 15W-40, 15W-50	
<b>DA</b>	Super Speed Sport		5W-20, 5W-30, 10W-30, 10W-40	API SM/CF, ACEA A1
<b>Delpi Automotive</b> (Australia)	Prestige Plus		0W-30, 0W-40, 5W-30, 5W-40, 10W-40, 15W-40, 10W-50, 15W-50	API SM/CF
<b>DSI Fluids</b>	Platinum Performance M.O.		0W-15	APL SL/CI-4
<b>Duckhams (UK)</b>	Q Fully Synthetic		5W-40	
<b>Duration</b>	Duration Fully Synthetic		5W-50, 20W-50,	API SL
<b>E-ION (Belgium)</b>	Electrion SYNAMAX		5W-30, 5W-40, 10W-30, 10W-40, 10W-50, 15W-40, 15W-50	API SL/CF, ACEA A3/B3
<b>ELF</b>	Excellium		0W-40	API SJ/CF, ACEA A3/B3
	Excellium		10W-50	API SM/CF, ACEA A3/B4
	Excellium DID		5W-40	API SJ/CF, ACEA A3/B3
	Excellium Full Tech		0W-30	API SL/CF, ACEA A3/B4-04
	Excellium GM		5W-30	API SL/CF, ACEA A3/B4
	Excellium LDX		5W-40	API SL/CF, ACEA A3/B4
	Excellium NF		5W-40	
	Excellium XLL		5W-40	API SL/CF, ACEA A3/B4
	Excellium 229.5			API SJ/CF, ACEA A3/B4, MB 229.5
	Evolution CRV		0W-30	ACEA A5/B5
	Evolution SXR		0W-30, 5W-30	API SL/CF, ACEA A5/B5
	Evolution SXR		5W-40	API SM/CF, ACEA A3/B4
	Solaris LLX		5W-30	ACEAA3/B4, VW504.00/507.00
	Solaris LSX		5W-30	API SM/CF, ACEA C3/A3/B4
	Solaris RNX		5W-30	API SM/CF, ACEA C3
	Sporti TXI		5W-40	API SL/CF, ACEA A3/B4

	<i>Series Name</i>	<i>Mono-viscosity SAE Grades</i>	<i>Multi-viscosity SAE Grades</i>	<i>Remarks (see note 3)</i>
<b>ENOC (UAE)</b>	Protec X-Treme		5W-40	API SM/CF
<b>ERG Petroli (Italy)</b>	Olikron		5W-40	API SL/CF, ACEA A3/B4
	Olikron		5W-50	API SJ, ACEA A3/B3/B4
<b>Eurol (Netherlands)</b>	Turbosyn		10W-40, 15W-50	API SL/CF
	Synergy		0W-30, 0W-40	API SL/CF, ACEA A3/B3/B4
	Super Ultra II		0W-30	API SJ/CF, ACEA A5/B5, VW 506.01
	Super Lite		5W-30, 5W-40, 5W-50	API SL/CF, ACEA A3/B3/B4
<b>Eurol (cont)</b>	Protence		5W-30	API SL/CF, ACEA A3/B3/B4
	Fluence		5W-30	API SL/CF, ACEA A3/B3/B4
<b>ExxonMobil</b>	see Mobil			
<b>FL Selenia (Italy)</b>	Selenia Gold Synth		10W-40	API SL/CF, ACEA A3/B3
	Selenia 20K		10W-40	APISL/CF, ACEA A3, CCMC G5
	Selenia ACT		10W-40	API SJ/CF, ACEA A3, CCMC G5
	Selenia Digitech		0W-30	API SL/CF, ACEA A3/B3/B4
<b>FL Selenia (Italy)</b>	Selenia K		5W-40	API SM/CF, ACEA A3/B3
<b>(by Petronas)</b>	Selenia Performer		5W-40	API SL/CF, ACEA A3/B3
	Selenia Performer Multipower		5W-30	API SL, ACEA A1/A5
<b>Flamingo</b>	Full Synthetic Motor Oil		0W-20, 5W-20, 5W-30	API SM
<b>Ford</b>	Motorcraft Full Synthetic Motor Oil		5W-20, 5W-30, 5W-50	API SM
<b>Fuchs</b>	Titan GT-1		0W-20, 5W-30, 10W-40	ACEA A3/B4, C3
	Titan GT-1 Longlife III		5W-30	ACEA A3/B4, C3, for VW
	Titan Supersyn SL		0W-30	API SL/CF
	Titan Supersyn SL Longlife Plus		0W-30	ACEA A5/B5
	Titan Supersyn SL Longlife		5W-30	ACEA A3/B4
<b>Fuki</b>	XHD Turbo 100% Full Synthetic Motor Oil		5W-30, 10W-30, 5W-50	
<b>Galp (Portugal)</b>	Formula 1 Plus		5W-40	API SL/CF, ACEA A3/B3
	Formula TD Plus		5W-40	API SL/CF, ACEA A3/B3
	Energy Ultra		0W-30	API SL/CF, ACEA A3/B3/B4
	Energy Ultra FE		5W-30	API SL/CF, ACEA A1/B1; A5/B5
	Energy Ultra LS		5W-40	API SL/CF, ACEA A3/B3/B4; C3
	Energy Plus		5W-40	API SL/CF, ACEA A3/B3/B4
	Energy Premium Plus		10W-40	API SL/CF, ACEA A3/B3/B4
<b>Gazprom Neft</b>	SibiMotor Extra Synthetic		5W-40	API SL/CF
<b>(Russia)</b>				
<b>GB Lubricants (UK)</b>	GB Turbo SXS		5W-40	API SL/CF, ACEA A3/B3/B4
	GB Turbo SXL		5W-30	
	GB Turbo SXV		5W-30	
	GB Turbo SX		5W-30	
	GB Turbo PD		5W-40	
	GB UNIMOT® SYNTH 931		5W-30	
<b>Getty</b>	Full Synthetic		5W-30	API SM
<b>Global Traco (Spore)</b>	GT 1 Fully Synthetic		5W-30, 5W-40, 10W-30, 10W-40	API SM/CF
<b>Great Wall Sinopec</b>	Great Wall SJ Syn Gasoline Eng Oil		5W-50	
<b>(China)</b>	see Sinopec			
<b>GS Caltex (Korea)</b>	Kixx PAO		5W-20	API SM/CF

	<i>Series Name</i>	<i>Mono-viscosity SAE Grades</i>	<i>Multi-viscosity SAE Grades</i>	<i>Remarks (see note3)</i>
<b>Gulf Oil Int'l (India)</b>	Formula G		0W-30	API SJ/CF, ACEA A3/B3/B4, PAO
	Formula G		5W-30, 5W-40	Group III B. Oil, API SL, ACEA A3/B3/B4
	Formula ULE		5W-30	Group III Base Oil, API SL/CF
	Formula GX		5W-30	Group III Base Oil, ACEA A3/B3/B4
	Formula XLE		5W-30	Group III Base Oil, A3/B3/B4
	Formula GMX		5W-30	Group III Base Oil, API SL/CF
	Formula LEF		5W-30	Group III Base Oil, API SL/CF
	Ultrasynth		5W-30, 10W-30, 10W-40	Group III Base Oil, API SM/CF
<b>Habot (South Africa)</b>	Synthetic Motor Oil		20W-50	
<b>HEKRA (Czech)</b>	SPRINT extrasyn		0W-40	API SL/CF, ACEA A3/B3/B4
	SPRINT supersyn A1		5W-30	API SJ/CF, ACEA A1/B1
	SPRINT syntec		5W-40	API SL/CF, ACEA A3/B3/B4
	SPRINT syntec PD		5W-40	API SJ/CF, "Pumpe Duse"
	DYNAMIC fullsyn		5W-40	API SJ/CF, ACEA A3/B3/B4
<b>Hicks Oil</b>	Venom Synthetic		5W-20, 10W-30	API CF/SM
	Formula 500 Synthetic		5W-20	API SM /CF
<b>Hyrax (Malaysia)</b>	Aureus		5W-40	API SJ/CF
<b>Idemitsu-USA</b>	Racing Rotary Engine Oil		10W-30, 20W-50	API SM
<b>Igol (France)</b>	Ceramic F1		10W-50	API SJ/CF, ACEA A3/B3
	Process MB		0W-30	API SJ/CF, ACEA A3/B3/B4
<b>Imperial (Esso Can.)</b>	Superflo Synthetic		5W-30, 10W-30	API SL/CF
	Mobil 1		5W-20	API SM/CF
<b>INA (Croatia)</b>	Millennium		5W-40	
<b>Insa (Bulgaria)</b>	Synthetic M.O.		5W-40	API SJ/CF
<b>Inter Oil (France)</b>	Racer XTX 3000		5W-30	API SL/CF
	Racer XTX 4000		10W-40	API SL/CF
	Racer XTX 5000		5W-40	API SL/CF
	Racer XTX 5501		5W-40	API SJ/CF
<b>Ipiranga (Brazil)</b>	F1 Master Syntetico		5W-30	API SL
<b>Irving Oil</b>	see COASTAL Blending & Packaging			
<b>JB Chemical</b>	Kem-O-Pro HD Synthetic Engine Oil		SEO-812 (5W-30), SEO-813 (15W-50)	PAO/Ester, 12 TBN, 1.4% ash
<b>KAL &amp; C (Korea)</b>	KAL-Superlube 1		0W-30, 0W-40, 10W-50	API SL
<b>Kalton (Kores)</b>	Full Synthetic		5W-30, 10W-30, 5W-40, 5W-50	API SL
<b>Kendall</b>	GT-1 Full Synthetic Motor Oil		5W-30, 10W-30, 5W-40	API SM/CF, ACEA A3/B3/B4
	SHP Synthetic Motor Oil		5W-30	API SL/CF
	GT-1® Ultimate Synthetic Motor Oil		5W-30, 10W-30	API SM/CF
<b>Klotz</b>	Racing Estorlin			
<b>KOST USA</b>	Kostgard Ultra Synplus		5W-20	API SM
<b>Krafft (Spain)</b>	Synthetic		5W-40, 10W-40	API SJ/CF, ACEA A3/B3
<b>Kuwait Petroleum</b>	Q8 Formula F1		10W-50	API SL, ACEA A3
	Q8 Formula V Long Life		5W-30	ACEA A3/B4/C3
	Q8 Formula G Long Life		5W-30	ACEA A3/B3/B4
	Q8 Formula Excel EDX		0W-30	ACEA A5/B5
	Q8 Formula Excel		5W-40	API SM/CF, ACEA A3/B3/B4
	Q Torque Power		5W-20, 5W-30, 10W-30, 10W-40	API SM
<b>Leprinxol (Germany)</b>	Synth		0W-40, 5W-40	API SL/CF, ACEA A3/B3/B4
	Synth Long Life II		0W-30	API SJ/CF, ACEA A1/B1
	Synth VWP		5W-40	API SJ/CF, ACEA A3/B3

	<i>Series Name</i>	<i>Mono-viscosity SAE Grades</i>	<i>Multi-viscosity SAE Grades</i>	<i>Remarks (see note3)</i>	
<b>Liqesa (Mexico)</b>	Optimus Synthetic		5W-20, 5W-50	API SL	
<b>Liqua-Tek</b>	H-D Plus Syn-Gard		10W-40, 15W-40	12 TBN, 1% ash	
<b>LOTOS (Poland)</b>	Traffic Thermal Control		5W-40	API SL/CF, ACEA A3/B3/B4	
	Economic Thermal Control		5W-30	API SL/CF, ACEA A3/B3/B4	
	Race & Rally Thermal Control		10W-50	API SL/CF, ACEA A3/B3/B4	
	Synthetic M.O.		5W-40	API SL/CF, ACEA A3/B3/B4	
<b>Lubricants USA</b>	see Total SW USA				
<b>Lubricating Spec.</b>	XJD Super Premium Fully Synthetic		5W-40	API SM/CJ-4	
	Synthetic Passenger Diesel Car Oil		5W-30, 5W-40	API SM/CF, ACEA A3/B4/C3, MB 229.51	
<b>Lubrichim (Belgium)</b>	Lubrall Super Multigrade		5W-50	API SG/CD	
<b>LUKOIL (Russia)</b>	Synthetic M.O.		5W-40	API SM/CF	
<b>Marly</b>	Black Gold Carat S		5W-40	contains graphite	
<b>Matrix</b>	Formula MX4		5W-20, 5W-30, 10W-30	API SM	
<b>Meguin (Germany)</b>	Motorenoel Super Multisynth		0W-30	API SL/CF, ACEA A3/B4	
<b>Millers Oils (UK)</b>	XF Long Life		5W-30	ACEA A3/B4	
	XF Long Life 3		5W-30	API SM/CF, ACEA A3/B3/B4/C3	
	XF S		5W-40, 5W-50	API SL/CF, ACEA A3/B3	
<b>Min Jung Hong (Taiean)</b>	Baron Fully Synthetic		5W-30, 5W-50, 10W-40	API SM/CF	
	FUDK-8 Fully Synthetic		5W-30, 5W-50, 10W-40	API SM/CF	
	Max-Lube Fully Synthetic		5W-30, 5W-50, 10W-40	API SM/CF	
	Morlen Fully Synthetic		5W-30, 5W-50, 10W-40	API SM/CF	
	Orange TSN Fully Synthetic		5W-30, 5W-50, 10W-40	API SM/CF	
				5W-20	API SM/CF, ACEA A1/B1
<b>Mobil</b>	Mobil 1		5W-30, 10W-30	API SM/CF, ACEA A5/B5	
	Mobil 1		15W-50	API SM/CF, ACEA A3/B3/B4	
	Mobil 1 Advanced Fuel Economy		0W-20, 0W-30	API SM/CF, ACEA A1/B1	
	Mobil 1 EP (Extended Performance)		5W-20	API SM/CF, ACEA A1/B1	
	Mobil 1 EP (Extended Performance)		5W-30, 10W-30	API SM/CF, ACEA A5/B5	
	Mobil 1 EP (Extended Performance)		15W-50	API SM/CF, ACEA A3/B3/B4	
	Mobil 1 ESP Formula		5W-30	API SM/CF, ACEA A5/B5	
	Mobil 1 Formula M		5W-40	MB 229.5	
	Mobil 1 High Mileage		10W-30, 10W-40	API SL/CF, ACEA A3/B4	
	Mobil 1 Truck & SUV		5W-30	API SM/CF, ACEA A5/B5	
	<b>Morris (UK)</b>	Multilife Competition		10W-50	API SL/CF, ACEA A3/B3
		Multilife High Performance		5W-40	API SL/CF ACEA A3/B3/B4
		Multilife Fuel Efficient		0W-30, 5W-30	API SL/CF, ACEA A5/B3/B5
	<b>Motorex (Switz.)</b>	Xperience FS-X		0W-30, 0W-40, 5W-40, 10W-60	API SL/CF ACEA A3/B4
Concept V-XL			0W-30	ACEA A5/B5	
<b>MOH (Greece)</b>	Super Synto		5W-40	API SL/CF	
<b>Motul (France)</b>	8100 X Max		5W-30, 0W-40, 5W-40	Ester	
<b>Neste (Finland)</b>	City Pro LL		5W-30	API SL/CF ACEA A3/B3/B4	
	City Pro		0W-40, 5W-40	API SL/CF ACEA A3/B3/B4	
	City Pro A5/B5		0W-30	API SL/CF ACEA A5/B5	
<b>Nikko Sangyo (Japan)</b>	Keystone Full Synthetic		0W-20, 5W-40	API SL/CF	
	Versus Full Synthetic		10W-40	API SM/CF	
<b>Nippon Oil</b>	ENEOS Full Synthetic		5W-20	API SM	
	ENEOS Premium Ultra		0W-50	API SM	
	ENEOS Premium Hyper		5W-30	API SM/CF, ACEA A3/B3/B4	



	<i>Series Name</i>	<i>Mono-viscosity SAE Grades</i>	<i>Multi-viscosity SAE Grades</i>	<i>Remarks (see note3)</i>
<b>Nissan</b>	Fasflo 100% Synthetic Motor Oil		5W-40	API SL/CF, ACEA A3/B3
	Fasflo Synthetic Racing Oil		10W-60, 20W-50	API SL/CF
<b>Nulon (Australia)</b>	Synthetic Long Life		5W-30	API SM/CF, ACEA A5/B5/C3
<b>Nycos Americas</b>	NL 402		5W-40	API SL/CF Racing Ester
	NL 403		0W-30	API SL/CF Ester VW Longlife
	NL 404		0W-40	API SJ/CF BMW-MB Longlife
	NL 405		5W-30	API SJ Special Ford
	NL 451 (formerly NL 225)		0W-40	API SJ/CF
	NL 452 (formerly NL 239)		5W-30	API SL/CF
	NL 453 (formerly NL 197)		5W-40	API SL/CF
	NL 454 (formerly NL 197)		10W-30	API SL/CF
	NL 491 (formerly NL 213)		10W-60	API SL/CF Racing
	NL 492 (formerly NL 172)		15W-50	API SJ/CF Racing
<b>Oberon (Singapore)</b>	F333		5W-40, 20W-50, 15W-60	API SL/CF, EC
<b>Oil Distributing Co.</b>	Mechanics Pride Full Synthetic		0W-20, 5W-20, 5W-30	API SM
<b>Old World Ind.</b>	Blue Mountain Full Synthetic		5W-20, 5W-30, 10W-30	API SM
	Peak Performance Full Synthetic		5W-20, 5W-30, 10W-30	API SM
<b>OMV (Austria)</b>	Full Syn		0W-40	
<b>One Way (Taiwan)</b>	EVO 100% Synthetic		5W-30, 10W-40, 5W-50	API SL, ACEA A5/B5-02
<b>ORLEN (Poland)</b>	Platinum Synthetic		5W-40	API SM/CF, ACEA A3/B3/B4
	Platinum Synthetic		0W-30	API SL/CF, ACEA A3/B3/B4
	Extra Synthetic		5W-40	API SL/CF, ACEA A3/B3/B4
<b>Pakelo (Italy)</b>	Krypton XT		5W-30, 5W-40	Racing
	Krypton XT LA		5W-30	Audi TT 225 BP
<b>Paramo/Unipetrol (Czech)</b>	Trysk Racing		5W-40	API SL/CF, ACEA A3/B3/B4
<b>Pennzoil</b>	Performax 100 Synthetic Motor Oil		5W-30, 10W-30	
	Platinum Full Synthetic Motor Oil		5W-20, 5W-30, 10W-30, 5W-40	API SM/CF, ACEA A5/B5
	Platinum European Full Synthetic Motor Oil		0W-30	API SL/CF, ACEA A5/B5
	Platinum European Full Synthetic Motor Oil		5W-40	API SM/CF, ACEA A3/B4
	Platinum European Ultra Full Synthetic Motor Oil		5W-30	API SH/CF, ACEA A3/B4
	Platinum Low Saps		5W-30	API SL/CF, ACEA A3/B4
	Platinum VX		5W-30	API SM, ACEA A3/B4/C3
	Full Synthetic Hybrid		0W-20	API SM/CF, ACEA A1
<b>Penrite (Australia)</b>	Synthetic 5		5W-60	API SL/CF, ACEA A3/B4
<b>Pentosit (Germany)</b>	Pentosynth VS		5W-40, 5W-50	API SL/CF, ACEA A3/B3
	Pentospeed VS		5W-30	API SM/CF, ACEA A3/B3/B4
	Pento Super Performance III		5W-30	ACEA A3B4, Low SAPS
<b>Pertamina (Indonesia)</b>	Fastron Full Synthetic M.O.		0W-50	API SM
<b>Petrobras (Brazil)</b>	Lubrax Sintetico		5W-40	API SL/CF, ACEA A3/B3
<b>Petro-Canada</b>	P-C Synthetic Motor Oil		0W-30, 5W-30, 5W-40, 10W-30	API SM/CF
<b>Petrol (UK)</b>	Ultra Long Life		0W-30	API SL/CF
	Sport		5W-40	API SL/CF
<b>Petrol Ofisi (Turkey)</b>	Ultra		5W-40	API SM/CF, ACEA A3/B3/B4
<b>Petronas (Malaysia)</b>	Syntium 1000 SM		15W-50	API SM/CF, 11 TBN, 0.9% ash
	Syntium 1000 SL		15W-50	API SL/CF, 9 TBN, 1.2% ash
	Syntium 3000 SM		5W-40	API SM/CF, 11 TBN, 0.88% ash

	<i>Series Name</i>	<i>Mono-viscosity SAE Grades</i>	<i>Multi-viscosity SAE Grades</i>	<i>Remarks (see note3)</i>
<b>Petronas (Malaysia)</b>	Syntium 3000 SL		5W-40	API SL/CF, 9.6 TBN, 1.17% ash
<b>(cont)</b>	Syntium 5000		0W-30, 0W-40	API SM, GF-4
<b>Petronomics</b>		57150 (0W-20), 57154 (0W-30), 57158 (0W-40), 57174 (5W-20), 57162 (5W-30), 57166 (10W-30), 57170 (15W-50)		PAO
<b>Phillips</b>	Troparctic Full Synthetic		5W-30, 10W-30, 5W-50	API SM/CF
<b>Pinnacle Oil</b>	National Synthetic		5W-20	API SM
<b>Pinnacle Resources</b>	Premium Synthetic PCMO		5W-20	API SM
<b>Pitt-Penn</b>	Gearhead Full Synthetic Motor Oil		5W-20, 5W-30, 10W-30, 10W-40	API SM/SL
<b>Primrose Oil</b>	790 Syn-O-Gen Synthetic Motor Oil		5W-30	API SL/CF/CF-2/CF-4, 8 TBN
	791 Syn-O-Gen Synthetic Motor Oil		5W-40	API CI-4 Plus/SL, 11 TBN
<b>Prista (Bulgaria)</b>	Ultra		5W-30, 5W-40	API SL/CF (5W-30), API SM/CF (5W-40)
	Formula Ultra RS		10W-60	API SL/CF, ACEA A3/B3
<b>Prolab</b>	PRO-1		5W-30, 5W-40	API SM
	ARCTIC-PRO		0W-30	API SJ/CH-4
<b>Pro Oil (Philippines)</b>	Lubrixx 100% Synthetic		15W-50	API SL/CF
<b>PTT (Thailand)</b>	Performa Synthetic (API SM)		5W-40	API SM/CF
<b>Quaker State</b>	Full Synthetic Motor Oil		5W-30, 10W-30, 5W-50	API SL/CF
	Q Advanced Engine Synthetic		5W-20	API SM/CF
	Q European Full Synthetic		5W-40	API SL/CF
<b>Quaker St. Mexico</b>	Q Advanced Engine 100% Synthetic		5W-50	API SM
<b>Ravenol (Germany)</b>	Vollsynthetisches Motorenöl VSI		5W-30	API SM/CF, ACEA A3/B4
	Leichtlauföl SSL		0W-40	API SL/CF, ACEA A3/B4
	Longlife GM		5W-30	API SM/CF, ACEA A3/B3
	Super Synthetic Oel SSO		0W-30	API SL/CF, ACEA A3/B4
	SFE Super Fuel Economy		5W-20	API SM, PAO
	Leichtlauföl TSI		10W-40	API SM/CF, ACEA A3/B3/B4
<b>Red Line</b>	High Performax Synthetic Motor Oil		5W-30, 10W-30, 10W-40, 15W-50, 20W-50	POE
<b>Repsol-YPF</b>	Elite 50501 TDI		5W-40	
	Elite Cosmos		0W-40	
	Elite CommonRail		5W-30	
	Elite Competicion		5W-40	API SM/CF, 10.5 TBN, 1.1% ash
	Elite Evolution		5W-40	API SM/CF, ACEA A3/B3/B4, C3
	Elite Evolution FE		5W-30	
	Elite Evolution Long Life		5W-30	
	Elite ECO XXI		0W-30	ACEA A/B1/B4
	Elite Long Life 50700/50400		5W-30	
	Elite Multivalvulas		10W-40	
<b>Rowe Mineralölwerk GmbH</b>	HIGHTEC SYNTH RS		0W-30, 0W-40, 5W-40, 10W-60	API SL/CF, ACEA A3/B4
	HIGHTEC SYNTH RS LV II		0W-30	API SJ/CF, ACEA A1/B1
	HIGHTEC SYNTH RS LV		0W-30	API SJ/CF, ACEA A1/B1
<b>Roshfrans (Mexico)</b>	100% Synthetic Motor Oil		5W-30	API SL
<b>Rowe (Germany)</b>	Hightec Synth RS		0W-30, 0W-40, 5W-40	API SL/CF, ACEA A3/B3/B4
<b>Royal Mfg.</b>	Monarch Synlube Select Motor Oil		5W-30, 10W-30, 15W-50	API SM/SL
<b>Royal Purple</b>	RP Motor Oil	30, 40, 50	5W-20, 5W-30, 10W-30, 10W-40, 15W-40, 20W-50	Typically API SJ (mono), SM(multi)
<b>Sakson Parnas (Greece)</b>	Evo Synthesis		5W-40	API SL/CF, ACEA A3/B3
<b>Sanho (Malaysia)</b>	Aimalube F1 Fully Synthetic		5W-40	API SM/CF
	Savana Fully Synthetic Alfa F1		5W-40	API SM/CF

	<i>Series Name</i>	<i>Mono-viscosity SAE Grades</i>	<i>Multi-viscosity SAE Grades</i>	<i>Remarks (see note3)</i>	
<b>Schaeffer</b>	9003 Supreme 9000 Full Synthetic		5W-30	API SM/CF, ACEA A5/B5	
	9001 Supreme 9000 Full Synthetic Racing Oil		5W-50	API SM/CF, ACEA A1/B1	
<b>Sentinel</b>	SLC Motor Oil	10, 20, 30, 40	5W-30, 5W-60, 10W-30, 10W-40, 10W-50, 15W-40, 15W-50, 20W-50		
<b>Sentinel Canada</b>	SenSyn		5W-30, 10W-30, 10W-40, 15W-40, 20W-50		
<b>Sepahan (Iran)</b>	Formula S-5w40 Full Synthetic Motor Oil		5W-40	API SL/CF, ACEA A3/B3/B4	
<b>Sharlu (Sharjah)</b>	Sharlu Ace		5W-40	API SL/CF, ACEA A3/B3/B4	
	Sharlu Prime		10W-40	API SL/CF, ACEA A3/B3	
	Falcon Maximum		5W-40	API SL/CF, ACEA A3/B3/B4	
	Helix Ultra		5W-40	API SL/CF, ACEA A3/B3/B4	
	Helix Ultra AB		5W-30	API SH/CF, ACEA A3/B3/B4	
<b>Shell</b>	Helix Ultra AC		0W-30	API SL/CF, ACEA A5/B5	
	Helix Ultra AP		5W-30	ACEA A3/B4	
	Helix Ultra AX		5W-30	ACEA A3/B4/C3	
	Helix Ultra Racing		10W-60	API SM/CF, ACEA A3/B3/B4	
	FormulaShell Full Synthetic M.O.		5W-20, 5W-30, 10W-30	API SM/CF	
	FormulaShell 100% Synthetic M.O.		5W-30, 10W-30	API SM/CF	
	<b>Shell Canada</b>	Comet Fully Synthetic		5W-30, 5W-50, 10W-40	API SM/CF
		KS Fully Synthetic		5W-30, 5W-50, 10W-40	API SM/CF
		Primo Fully Synthetic		5W-30, 5W-50, 10W-40	API SM/CF
		Weco Fully Synthetic		5W-30, 5W-50, 10W-40	API SM/CF
<b>Shun Ping (Taiwan)</b>	Titan Full Synthetic		0W-40, 5W-30, 10W-30	API SM/CF	
	Super Synthetic Motor Oil		0W-30, 5W-30, 10W-30, 0W-40, 15W-40, 15W-50		
<b>Siegel Oil</b>	Artic Fire Full Synthetic		5W-30, 10W-30	API SM/CF	
<b>Silogram</b>	Dyno-Tech Supreme		10W-30	API SL/EC	
	Fully Synthetic Gasoline Engine Oil		0W-50, 5W-40	API SM/CF	
<b>Sinclair</b>	Great Wall Fully Synthetic Gasoline Engine Oil		0W-50	API SM/CF	
	Super S SuperSyn Full Synthetic Motor Oil		5W-20, 5W-30, 10W-30	API SM/CF	
<b>Sinopec (China)</b>	Ngol Rally		5W-40	API SJ/CF, EC, ACEA A3/B3	
	Wintershall ViVA 1 synth		5W-40	ACEA A3/B3, API SJ/CF	
	LazerWay		5W-40, 5W-50	API SL/CF, ACEA A3/B3/B4	
	LazerWay C		5W-30	ACEA C2/A5/B5, Mid SAPS	
	LazerWay F		5W-30	Ford WSS-M2C912A, M2C913A/B	
<b>Smitty's Supply</b>	LazerWay G		5W-30	API SL/CF, ACEA A3/B3	
	LazerWay G		0W-30	ACEA A1/B1, GM-LL-A-025	
	LazerWay TDI		5W-40	API CF, ACEA A3/B4, GM-LL-B-025	
	RacingWay HP		15W-40, 25W-50	API SG/CD, Porsche	
<b>Sonangol (Angola)</b>	STP Synthetic		20W-50		
<b>SRS Schmierstoff</b>	Syntenal		0W-30, 5W-30, 10W-30, 10W-40, 15W-50	meets level of API SL	
	DSL Synthetic Motor Oils		0W-20, 5W-20, 5W-30, 10W-30, 5W-40	API SM	
<b>Statoil (Norway)</b>	Ultra Synthetic		5W-20, 5W-30, 5W-40, 10W-40, 5W-50, 15W-50	API SM/SL	
	X Power Full Synthetic		7.5W-30, 12.5W-40, 17.5W-50	Ester	
<b>Statoil (cont)</b>	Synturo Xenon		5W-30, 5W-40	API SM/CF, ACEA A3/B4/C3	
	Synturo Brilliant Long Life 3		5W-30	API SL/CF, ACEA A3/B3/B4/C3	
	Synturo Saphir		5W-30	API SL/CF, ACEA A3/B3/B4	
<b>STP/Clorox</b>	Synturo Diamond		0W-40	API SJ/CF, ACEA A3/B3/B4	
	Synturo Gold		5W-40	API SL/CF, ACEA A3/B3/B4	
	Synturo		5W-50	API SH/CD	
	Synturo Brilliant Long Life II		0W-30, 5W-30	API SM/CF, ACEA C3/A3/B4	

	<i>Series Name</i>	<i>Mono-viscosity SAE Grades</i>	<i>Multi-viscosity SAE Grades</i>	<i>Remarks (see note3)</i>
<b>Sunoco UK (cont)</b>	Synturo Racing		10W-60	
	Marathon		10W-40	API SL/CF, A3/B3
<b>Synergyn</b>	Synergyn LTS Racing Oil	50 and 70	3W-30, 5W-30, 15W-50	API SL/CI-4
<b>TEDEX (Poland)</b>	Synthetic Premium		5W-30, 0W-40, 5W-40	API SL/CF, ACEA A3/B3/B4
<b>Texaco</b>	Havoline Synthetic Motor Oil		5W-20, 5W-30, 10W-30, 5W-40	API SM/CF
<b>TEXASTEALUBEST</b>	TEXASTEALUBEST Full Synthetic Motor Oil		0W-20, 0W-40, 5W-20, 5W-30, 10W-30, 10W-40, 15W-50, 20W-50	API SM/CF
	Full Synthetic Eiropean Car		5W-40	API SL/CF
<b>Thermal-Lube</b>	XL0831 Polyon	30, 40, 50	0W-30, 5W-30, 10W-30, 10W-40, 15W-40	
<b>Top Oil Products</b>	Top-1 SMO-8000		5W-50, 15W-50	API SL
	Top-1 SMO-HP		20W-50	API SL
	Top 1 Synthetic Super		10W-30	API SL
	Top-1 Evolution Synthetic Racing Oil		10W-60	
<b>Torco</b>	SR-1 Synthetic M. O.		5W-20, 5W-30, 10W-30, 10W-40, 20W-50	API SL (5W-40 API SM/CF)
	SR-5 100% Synthetic DLG		5W-40	API SM/CF, ACEA A3/B4/C3
	SR-5 100% Synthetic LDG		5W-30	API SM/CF, ACEA A3/B4/C3
	SR-5 Synthetic Racing Oil		0W-20, 5W-30, 5W-40, 5W-50, 20W-50	
<b>TOTAL (International)</b>	Activa 7000		10W-40	
	Activa 9000		5W-40	
	Activa Competition		10W-50	
	Activa Future 9000		5W-30	
	Quartz 505.01		5W-40	
	Quartz 9000		0W-30, 0W-40, 5W-30, 5W-40	API SJ/CF, ACEA A3/B3/B4
	Quartz 9000 Energy		0W-30	API SL/CF, ACEA A3/B4
	Quartz 9000 Energy		5W-40	API SM/CF, ACEA A3/B4
	Quartz 9000 Future		0W-20	API SM/GF-4
	Quartz 9000 Future		5W-30	API SL/CF, ACEA A5/B5
	Quartz 9000 Future		5W-40	API SM/CF, ACEA A3/B4
	Quartz Racing		10W-50	API SM/CF
	Quartz Ineo 504/507		5W-30	ACEA A3/B4, VW 504.00/507.00
	Quartz Ineo ECS		5W-30	ACEA A2, Low SAPS
Quartz Ineo MC3		5W-30	APISM/CF, ACEA A3/C3, MB229.51	
<b>TOTAL (cont)</b>	Quartz 9000 Future FGC		5W-30	API SM/GF-4, USA only
	Quartz 9000 Future XT		5W-20, 5W-30, 10W-30	API SM/GF-4, USA only
	Syntipro		10W-40	
	Lexus Full Synthetic		0W-20	API SM
<b>Toyota Canada</b>	Full Synthetic		5W-30	API SM
<b>Tribology Tech-Lube</b>	Super Syn		0W-20, 5W-20, 10W-30, 5W-40, 15W-50	API SM/CF
<b>TRLI (Taiwan)</b>	TRLI-HERA Fully Synthetic		5W-30, 5W-40, 5W-50, 5W-60, 10W-30, 10W-60	API SM/CF
<b>Ultrachem</b>	Chemlube	30, 40	10W-30, 10W-40, 20W-50	
<b>Ultramar (Canada)</b>	Extreme Synthetic Motor Oil		5W-30, 10W-30	API SM/CF
<b>Unicorn(Singapore)</b>	100% Synthetic Ultrasynth		0W-40, 5W-40, 5W-50	API SL/CF
	Super Motto Pro S Fully Synthetic		5W-30, 5W-50	API SL/CF
<b>Unil (Germany)</b>	Super Synth		0W-40	API SL/CF, ACEA A3/B3
<b>United (Singapore)</b>	United 1 Fully Synthetic		5W-40, 5W-50	API SL, SM/CF, ACEA A3/B3
	United Gold Fully Synthetic		5W-40, 5W-50	API SL/CF, ACEA A3/B3
<b>U.S. Oil</b>	U.S.Synthetic		5W-20	API SM/CF
<b>Valvoline</b>	SynPower Full Synthetic (ILSAC)		0W-20, 5W-20, 5W-30, 10W-30	API SM/SL/CF, ACEA A1/A5
	SynPower Full Synthetic		20W-50	API SM/SL/CF, ACEA A3/B3/B4/C3

	<i>Series Name</i>	<i>Mono-viscosity SAE Grades</i>	<i>Multi-viscosity SAE Grades</i>	<i>Remarks (see note3)</i>
<b>Valvoline (cont)</b>	SynPower MST		5W-30, 5W-40	API SM/SL/CF, ACEA A3/B3/B4/C3
	SynPower HST		5W-40	API SM/SL/CF, ACEA A3/B3/B4
	SynPower MXL		5W-30	API SL/CF, ACEA A3/B3/B4
	MaxLife Synthetic		5W-30, 10W-30	API SM/SL/CF, ACEA A3
	NSL Synthetic Racing Oils			Not Street Legal
<b>VatOil (Netherlands)</b>	VAT SynGold		0W-30, 0W-40, 5W-40	API SL/CF, ACEA A3/B4
	VAT SynGold LL		0W-30, 5W-30	ACEA A5/B5
	VAT SynGold LL-X		5W-30	API SJ/CF, A3/B4
<b>Veloil (Thailand)</b>	Velube 1		5W-40	API SL/CF, ACEA A3/B3/B4-98
<b>Walmart</b>	Super Tech Full Synthetic		5W-30, 10W-30, 10W-40	API SM/CF
<b>Warren Oil Co., Inc.</b>	LubriGold Full Synthetic		5W-20, 5W-30, 10W-30	API SM
	LubriGold Full Synthetic		5W-40	API SM/CF
	LubriGold Full Synthetic High Performance		5W-30	API SM
<b>Wladoil (Italy)</b>	Synflo		0W-30, 5W-30, 0W-40	API SJ/CF, ACEA A3-02/B2-98
	Turbo Tested System Green		5W-40	API SJ/CF, ACEA A3-96/B3-96
	Synthetic Turbo		10W-40, 15W-50	API SL/CF, ACEA A3-96/B3-96
<b>Wolf Oil (Belgium)</b>	Masterlube Synflow C3		5W-30, 5W-40	API SM/CF, ACEA A3/B3/B4/C3
	Masterlube Synflow C2		5W-30	API SM/CF, ACEA A5/B5/C2
	Masterlube Synflow C1		5W-30	ACEA A5/B5/C1, Low SAPS
	Masterlube Synflow LL III		5W-30	ACEA A3/B3/C3, Low SAPS
	Masterlube Synflow Plus		0W-30, 0W-40	API SL/CF, ACEA A3/B3/B4
	Masterlube Synflow Plus		5W-50	API SL/CF, CCMC G5/PD2
	Masterlube Synflow DC		5W-30	API SL/CF, ACEA A3/B3/B4
<b>Wunsch (Germany)</b>	Syntholube F1 Longlife		5W-30	API SJ, ACEA A1/B1
	Syntholube C1		5W-30	ACEA A5/B5/C1
	Syntholube GMO		0W-30	API SL/CF, ACEA A5/B5
	Syntholube GMO		5W-30	API SL/CF, ACEA A3/B3/B4
	Syntholube Longlife II		0W-30	ACEA A5/B5, VW 503.00, 506.00
	Syntholube Longlife III		5W-30	ACEA A3/B4/C3, VW 505.01
	Syntholube Longlife TT		5W-30	ACEA A3/B3/B4, API SJ/CF
	Syntholube MBA		0W-30	ACEA A3/B3/B4, API SJ/CF
	Syntholube MBS		5W-30	ACEA A3/B3/B4, MB 229.5
	Syntholube PC2		5W-30	ACEA C2-04/A5/B5, API SL/CF
<b>Yacco (France)</b>	Syntholube TMB		5W-30	API SM/CF, ACEA A3/B4/C3
	VX 505		5W-40	API SJ/CF, ACEA A3/B3
	VX 600		5W-40	API SL/CF, ACEA A3/B3/B4
	VX 1000		5W-40	API SL/CF
	VX 1500		5W-30	API SL/CF
	VX 1600		5W-30	
<b>Yukos (Russia)</b>	U-tech Energy		0W-30	
<b>Zeller+Gmelin (Ger.)</b>	DIVINOL Syntholight HC-FE		5W-30	
<b>76 Lubricants</b>	High Performance Full Synthetic Motor Oil		0W-20, 5W-30, 10W-30	API SM
	High Performance Full Synthetic Motor Oil		20W-50	API SJ/CF
	High Performance Track Full Synthetic Motor Oil		10W-30	API SJ/CF
	Pure Synthetic Motor Oil		5W-40	API SM/CF, ACEA A3/B3/B4
	Super Synthetic Motor Oil		5W-30, 10W-30	API SM/CF, ACEA A1

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Houston, TX 77082  
www.lubritecinc.com

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## Synthetic Lubricant Cross Reference Chart Series

### Synthetic Heavy Duty Diesel Engine Oils

	Series Name	Single Grades	SAE Grade						Remarks (see note 3 below)
			0W-30	5W-30	10W-30	0W-40, 5W-40, 10W-40	15W-40	5W-50, 20W-50	
<b>Addax (Korea)</b>	Delta-H								API CI-4
<b>Addoil Sdn Bhd (Malaysia)</b>	HIPRO X2000								API CI-4 Plus/CF/SL, ACEA E3
<b>Amalie</b>	XLO Ultimate Full Synthetic					5W-40	15W-40		API CI-4 Plus/SL
<b>Amalie Petroquimica</b>	APSA Lander						15W-40		API CI-4/SL
<b>American Hi-Tech (Amtecol)</b>	Super Life XLD 12000					10W-40			API CJ-4/SM, 12 TBN
<b>American Synthol</b>	Amerilube Eagle G-4T			5W-30		5W-40		10W-50	API CI-4 Plus/SL, ACEA E7/B3/A3
	Amerilube Eagle G-4M	40						10W-50	API CI-4 Plus/SL, ACEA E7/B3/A3
<b>Ametol</b>	Super Life D10,000					5W-40			API CI-4/SL
<b>AMSOIL</b>	-----						AME (15W-40)		API CI-4 Plus, CF-2/SL, ACEA A3/B3/E7
	-----						DME (15W-40)		API CJ-4, ACEA E7/E9
	-----				HDD (Series 3000)				API CI-4 Plus/SL, ACEA A3/B3/E5/E7
	-----						DEO (5W-40)		API CJ-4, CI-4 Plus/SM, ACEA E7/E9
	-----	ACD (30)							API CI-4+, CF-2, CF/SL, ACEA A3/B3/E5
<b>AP Oil (Singapore)</b>	Diamond DX-J Fully Synthetic					5W-40			API CJ-4/SM
<b>Aztec (UK)</b>	XHPD					10W-40			API CF, ACEA E4-98, 14 TBN
	Fully Synthetic					5W-40			API CG-4/SJ
<b>Bardahl</b>	XHD 100% Synthetic Diesel Oil					5W-40			API CI-4/SL, 11.5 TBN
<b>Bigo (Taiwan)</b>	Hercules Synthetic						15W-40		API CI-4/SL
<b>Bonc PTE LTD (Singapore)</b>	Prestone Fully Synthetic					5W-40			API SL/CF-4
<b>Caltex (Singapore)</b>	Delo XLD Multigrade					10W-40			API CF, ACEA E4, 14 TBN, 1.8% ash
	Delo Sports Fully Synthetic					5W-40			API CI-4/SL
<b>Cam2</b>	Synthetic CI-4 DEO						15W-40		API CI-4/SL, 12.5 TBN, HTHS 4.04 cP
	Synavex HD						15W-40		API CI-4/SL, 10 TBN
<b>Case</b>	No. 1 SSL Engine Oil					0W-40			
<b>Castrol</b>	Elixion			5W-30					API CI-4, ACEA E4/E5/B4/B3, 12 TBN
<b>Caterpillar</b>	DEO Syn					5W-40			API CI-4 Plus/CF/SL12 TBN, 1.35% ash
	DEO Syn Arctic		0W-30						API CH-4/CF/SJ 10 TBN, 1.25% ash
<b>C&amp;C Oil</b>	Matrix			5W-30				15W-40	API CE, CD-II/SG
<b>Cepsa (Spain)</b>	Eurotrans SHPD			5W-30					15.9 TBN, ACEA E7
	Eurotech LS					10W-40			11.8 TBN, ACEA E6/E7
	Ertoil Super HPD LD					10W-40			10.4 TBN, API CH-4, ACEA E7
<b>Champion</b>	HTS Fleet					5W-40	15W-40		11 TBN, 1.4% ash, API CI-4/SL

	Series Name	Single Grades	0W-30	5W-30	10W-30	0W-40, 5W-40, 10W-40	15W-40	20W-50	5W-50, 10W-50	Remarks (see note 3 below)
<b>Chevron</b>	Delo 400 Synthetic		0W-30 (API CG-4, CF/SJ)							10 TBN, 1.1% ash; 12.5 TBN, 1.5% ash
	Delo 400 LE Synthetic									10.3 TBN, API CJ-4/CI-4 Plus SM
<b>Chevron (Asia)</b>	Delo 400 Synthetic		0W-30							API CG-4, CF/SJ (5W-40 is CI-4 Plus)
<b>CITGO</b>	Citgard SynDurance Engine Oil									10 TBN, API CJ-4/SM, ACEA E3, E5
	Citgard SynDurance Engine Oil		0W-30							12 TBN, API CI-4, CF/SJ, ACEA E3, E5
	Citgard SynDurance Plus									10 TBN, API CJ-4/SM, ACEA E3, E5
<b>COASTAL Blending &amp; Packaging</b>	Irving IDO Premium Plus									API CJ-4/SM
<b>Cognis</b>	Emgard 2810		0W-30							8 TBN, 0.9% ash, HTHD 3.27 cP
<b>Conoco</b>	Guardol ECT With Liquid Titanium				10W-30				15W-40	API CJ-4, CI-4 Plus, ACEA E7
	Triton ECT Full Synthetic								5W-40	9.3 TBN, API CJ-4/CI-4 Plus, SM
<b>CPC (Taiwan)</b>	Superfleet D5 Synthetic M.O.									ACEA/CCMC D5, API CE, 10 TBN
<b>Cyclon (Greece)</b>	D1 Euro Synthetic DEO								10W-40	
	D1 SHPD								15W-40 20W-50	
<b>Deere</b>	Plus 50								0W-40	12.8 TBN, 1.57% ash, HTHS 3.97 cP
<b>Delpi Automotive (Singapore)</b>	Supreme 1 Fully Synthetic								5W-40, 10W-40, 15W-40	API CF, CF-2, CI-4/SL
<b>DEUTZ AG</b>	TLX-FE								10W-40	APL CI-4/ SL, E7
<b>DSI Fluids</b>	Platinum Performance M.O.								15W-40	APL SL/CI-4
<b>ELF</b>	Performance Experty LSX								10W-40	
	Performance Experty								10W-40	API CF, ACEA E4/E5/E7, 15.8 TBN
	Performance Experty FE				5W-30					API CF, ACEA E4/E5/E7, 15.9 TBN
	Performance Victory								15W-40	API CI-4/SL, ACEA E5/E7, 10.3 TBN
<b>ENOC (UAE)</b>	Vulcan 770 SLD CI4									API CI-4
<b>ERG Petroli (Italy)</b>	TD 601				5W-30					API CI-4, ACEA E3/E5/B3/B4
	Olikron Diesel								5W-40	API CF/SJ, ACEA A3/B3/B4
	Olikron TD 505 01								5W-40	API CF/SJ, ACEA A3/B3, VW 505.01
<b>Eurol (Netherlands)</b>	Syntrax				5W-30					ACEA E4/E5, API SF, UHPD Oil
<b>FI Selenia (Italy)</b>	Selenia WR								5W-40	API CF, ACEA B3/B4
<b>FL Viscosity Oil</b>	Urania 100K Synthetic Diesel Engine Oil								10W-40	API CF, ACEA E4
<b>Fuchs (Germany)</b>	Titan CFE SL				5W-30					API CF-4, ACEA E4
	Titan Cargo SL				5W-30					ACEA E7/E5/E4
	Titan Cargo Maxx								10W-40	ACEA E4/E6/E7
<b>Galp (Portugal)</b>	Galaxia Extreme				5W-30					API CI-4, ACEA E5/E4
	Galaxia Ultra LS								10W-40	ACEA E6/E4
<b>Green Oil</b>	Fully Synthetic HDDO								15W-40	API CJ-4
<b>GS Caltex (Korea)</b>	Kixx PAO RV									For RVs and SUVs
<b>Gulf Oil Ltd</b>	Fleet Force Synth				5W-30					API CI-4, ACEA E7/E4/E5/B4, PAO
	Fleet Force Synth								10W-40	Group III Base Oil, ACEA E4/E7
	Superfleet XLE								10W-40	Group III Base Oil, ACEA E6
<b>Igol (France)</b>	Trans Turbo 10X				5W-30					API CI-4, ACEA E5/E4
	Trans Turbo 8X				5W-30					ACEA E4
<b>Inter Oil (France)</b>	Turbo LD 4								10W-40	API CI-4, ACEA E7-04
	Turbo LD 5								10W-40	API CF, ACEA E4-99
<b>Irving Oil</b>	see COASTAL Blending & Packaging									
<b>JAX</b>	Maxxum				5W-30				15W-40	API CI-4
<b>JB Chemical</b>	Kem-O-Pro HD Synthetic Engine Oil				SEO-812 (5W-30)				SEO-813 (15W-50)	PAO/Ester, 12 TBN, 1.4% ash
<b>Kalton (Korea)</b>	Full Synthetic				15W-30	10W-40			15W-40	API CH-4

	Series Name	Single Grades	0W-30	5W-30	10W-30	0W-40, 5W-40, 10W-40	15W-40	5W-50, 15W-50, 20W-50	Remarks (see note 3 below)
<b>Kendall</b>	SHP Diesel Full Synthetic								API CJ-4, CI-4 Plus/SM, 9 TBN, 1% ash
<b>Krafft (Spain)</b>	Sintetic								API CF-4, ACEA B3/E2
<b>Kuwait Petroleum</b>	Q8 Super Truck FE			5W-30					API CF, ACEA E4
	Q8 T 905					10W-40			ACEA E4/E6/E7
<b>Liqua-Tek</b>	H-D Plus Syn-Gard					10W-40	15W-40		PAO, 12 TBN, 1% ash
<b>LOTOS (Poland)</b>	Quazar C3			5W-30					API SL/CF, ACEA A3/B4/C3
<b>Lubricants USA</b>	see Total USA								
<b>Marly</b>	Black Gold Tdi-S					5W-40			
<b>Millers Oils (UK)</b>	XFD					5W-40			API CI-4, ACEA B3/B4
<b>Mobil</b>	Delvac 1					5W-40			12 TBN, 1.35% ash, CJ-4/CF/SJ, ACEA E7
	Delvac 1 ESP					5W-40			10 TBN, 1% ash, CJ-4/CF/SM, ACEA E7
	Delvac 1 SHC					5W-40			16 TBN, 1.8% ash, CF, ACEA E5 (marine)
	Mobil 1 Turbo Diesel Truck					5W-40			11 TBN, 1% ash, CJ-4/SM, ACEA E7/E5
<b>Morris (UK)</b>	Ring Free Ultra Plus FE			5W-30					API CH-4, ACEA E7, 16 TBN
<b>Motor Oil Hellas (Greece)</b>	Turbo Max					10W-40			
<b>Motul</b>	Tekma Ultima					10W-40			ACEA E4
<b>Mystik (Citgo)</b>	JT-8 Synthetic					5W-40			API CJ-4, CI-4 Plus, SM, ACEA E3/E5
<b>Neo Synthetic</b>	Neo Synthetic Motor Oil						15W-40		10.5 TBN, 1.12% ash
<b>Nippon Oil</b>	ENEOS Fleet Genesis Clean Diesel DX			5W-30					API CF-4
<b>Nitrolube (Canada)</b>	HD				10W-30		15W-40	20W-50	API CG-4, CF-2, CF/SJ
<b>Nyco America</b>	NL 461 (formerly NL 240)			5W-30					API CG-4 ester
	NL 416					10W-40			API CF
<b>ORLEN (Poland)</b>	Platinum Ultor Max			5W-30					ACEA E4/E5/E7
	Platinum Ultor Max					5W-40			API CJ-4, ACEA E7/E9
<b>Petro-Canada</b>	Duron Synthetic					5W-40			10 TBN, 1.4% ash
	Duron-E Synthetic Heavy Duty					5W-40			API CJ-4
<b>Petronas (Malaysia)</b>	Urania Maximo			5W-30					API CF, ACEA E4/E5/E7
<b>Petronomics</b>	51031 (30), 51033 (40), 51025 (0W-30),		51011 (5W-30), 51013 (10W-30), 51027 (5W-40),					51021 (15W-50)	PAO
<b>Phillips</b>	Guardol ECT With Liquid Titanium				10W-30		15W-40		API CJ-4, CI-4 Plus, ACEA E7
	Triton ECT Full Synthetic					5W-40			API CJ-4
<b>Primrose Oil</b>	711 Syn-O-Gen Synthetic Diesel Engine Oil					5W-40			API CI-4 Plus, 11 TBN, PAO
	791 Syn-O-Gen					5W-40			API CI-4 Plus/SL, 11 TBN
<b>Prista (Bulgaria)</b>	Ultra TD					10W-40			API CF, ACEA E4-99, TBN 15, HTHS 4.0
	UHPD					10W-40			ACEA E6-04, MB 228.51
<b>Prolab</b>	PRO-1					10W-40			API CH-4/SJ, 12 TBN, HTHS 3.9 cP
	Pro-D						15W-40		API CH-4/SJ, 11.7 TBN, HTHS 4.4 cP
	Arctic-Pro	0W-30							API CH-4/SJ, 11.9 TBN, HTHS 3.1 cP
<b>Prolube (Australia)</b>	Euromax					10W-40			ACEA E6
<b>PTT (Thailand)</b>	Dynamic Synthetic								API CI-4 PAO
<b>QALCO (Qatar)</b>	SL 1								API CG-4/SH
<b>Quaker State</b>	Q Torque Power					5W-40			API CI-4 Plus/CF/SL
<b>Ravenol (Germany)</b>	Super Performance Truck			5W-30					API CI-4/CF, ACEA E4/E7
	Expert SHPD					10W-40			API CI-4, CF/SL, ACEA A3/B4
	Performance Truck					10W-40			API CF, ACEA E4
	Arctic Truck	0W-30							API CH-4/SJ
<b>Red Line</b>	Synthetic Diesel Engine Oil						15W-40		



	Series Name	Single Grades	0W-30	5W-30	0W-40, 5W-40, 10W-30	10W-40	5W-50, 15W-40	20W-50	Remarks (see note 3 below)
<b>Repsol-YPF</b>	Diesel Turbo UHPD (Mid SAPS)					10W-40			API CF, ACEA E6/E4, 10 TBN
	Elite Turbo Life 50601		0W-30						ACEA E7/E5/E4, 16 TBN
<b>Rowe Mineralölwerk GmbH</b>	HIGHTEC TRUCKSTAR Synth					5W-30			API CI-4, ACEA E4/E5
<b>Royal Manufacturing</b>	Monarch Synlube Diesel Supreme Plus Engine Oil			5W-30		5W-40	15W-40	15W-50	API CH-4+/SL, 11 TBN, 1.2% ash
<b>Royal Purple</b>	Long Rider				10W-30		15W-40		API CI-4/SL, 10 TBN, HTHS 4.2 cP
	Royal Purple Motor Oil				10W-30	10W-40	15W-40		API CI-4/SL
<b>Schaeffer</b>	9000 Supreme 9000 Full Synthetic					5W-40			API CJ-4, CI-4 Plus/SM, ACEA E7/E9
<b>Sentinel</b>	SLC CJ-4					5W-40			API CJ-4
<b>Sharlu (Sharjah)</b>	Sharlu Hitec						15W-40		API CI-4/SJ, 10.3 TBN
<b>Shell</b>	Rotella T Synthetic					5W-40			10 TBN, 1.3% ash, CJ-4, CI-4 Plus, CF/SM
<b>Shell Canada</b>	Rotella T SB 100% Synthetic					0W-40			9 TBN, 1.2% ash, CI-4/SL
<b>Silogram</b>	Super Synthetic		0W-30	5W-30	10W-30	0W-40	15W-40	15W-50	API SL/CF (15W-40 is CI-4, 12 TBN)
<b>Sinclair</b>	Dyno-Tech Premium HD					5W-40			9.55 TBN, 1.8% ash
<b>SK Corp. (Korea)</b>	ZIC UP					10W-40			Group III B.O., CI-4, ACEA A3/B4
<b>SLFi</b>	Workhorse Super Premium Synthetic M.O.			5W-30		5W-40	15W-40	10W-50	11 TBN, 1.0% ash, CH-4
	Workhorse Full Synthetic			5W-30		5W-40	15W-40	10W-50	11 TBN, 1.0% ash
<b>Smitty's Supply</b>	Super S SuperSyn Synthetic						15W-40		API CI-4/SL
<b>Statoil (Norway)</b>	TruckWay			5W-30					API CF, ACEA E4/E7
	TruckWay E6					10W-40			ACEA E6/E4
<b>STP/Clorox</b>	STP Diesel Synthetic 40								API CF, CF-2/SL
<b>Sunoco (UK/Belgium)</b>	Synto HPD			5W-30					API CF, CF-4, ACEA E4
<b>Summit (Kluber NA)</b>	Syntenal		0W-30	5W-30	10W-30	10W-40		15W-50	PAO, meets level of API CI-4, CF-2
	DEO SH 9130, 9140								12 TBN, 1.36% ash
<b>Texaco</b>	Ursa Premium TDX Synthetic					5W-40			API CI-4 Plus/CF/SL, 13 TBN
<b>TEXASTEAL</b>	Full Synthetic Diesel Engine Oil		0W-30		10W-30	5W-40, 10W-40, 15W-40, 15W-50, 20W-50			API CJ-4, CI-4 Plus/SM
<b>TOTAL</b>	Rubia TIR 7800 SYN NA					5W-40			API CI-4 Plus/SL, ACEA E7
	Rubia TIR 7900 SYN NA					5W-40, 15W-40			API CJ-4/SM, ACEA E7
	Rubia TIR 8600					10W-40			API CF, ACEA E4/E5/E7, 15.8 TBN
	Rubia TIR 9200 FE			5W-30					API CF, ACEA E4
<b>Thermal-Lube</b>	XL0831 Polyon 30, 40, 50		0W-30	5W-30	10W-30	10W-40	15W-40		
<b>Top 1</b>	Evolution Fully Synthetic Diesel Oil			5W-30		5W-40			ACEA E5
<b>Ultramar (Canada)</b>	Odyssey XLD Synthetic					5W-40			API CJ-4, CI-4 Plus/SM, 11 TBN, 1.0% ash
<b>United (Singapore)</b>	DX 1 Fully Synthetic Diesel						15W-40		API CI-4 Plus/SL
	United Gold Fully Synthetic							5W-50	API CI-4/SL
<b>Valvoline</b>	Premium Blue Extreme					5W-40			API CJ-4/CF/SM, ACEA E7, 10 TBN
<b>Veloil (Thailand)</b>	VELUBE-1 Diesel Fully Synthetic					5W-40			API CI-4/SL
<b>Verkol (Spain)</b>	Turboplus LD					10W-40			
<b>Viscosity</b>	Urania 100K					10W-40			API CF, ACEA E4
<b>Warren Oil Co., Inc.</b>	Lubriguard					5W-40			API CJ-4/SM, ACEA E3/E5/E7
	Lubriguard Full Synthetic Heavy Duty					5W-40			API CJ-4/SM
<b>Wladoil (Italy)</b>	Diesel Flow UHPD			5W-30					API CF/CF-4, ACEA E4/E5
	UHP Diesel Oil					10W-40			API CF, ACEA E3-96
	Diesel Sint Special					10W-40			API CI-4/SL, ACEA E3/B3, E5-99
	Diesel MP Special						15W-40		API CI-4/SL, ACEA E5-99, E3/B3
<b>Wolf Oil (Belgium)</b>	Masterlube Longdrain Ultra					5W-40			API CF, ACEA E4
	Masterlube Longdrain Ultra					10W-40			API CI-4, ACEA E4/E6/E7

	<i>Series Name</i>	<i>Single Grades</i>	<i>0W-30</i>	<i>5W-30</i>	<i>0W-40, 5W-40, 10W-30</i>	<i>10W-40</i>	<i>5W-50, 15W-40</i>	<i>20W-50</i>	<i>Remarks (see note 3 below)</i>
<b>Yukos (Russia)</b>	U-tech System								
<b>Zeller+Gmelin (Germany) 76 Lubricants</b>	U-tech Energy								
	DIVINOL Multimax USHPD			5W-30					ACEA E4
	Guardol ECT With Liquid Titanium				10W-30		15W-40		API CJ-4, CI-4 Plus, ACEA E7
	Triton ECT Full Synthetic					5W-40			API CJ-4, CI-4 Plus, 9 TBN, 1% ash
	Synthetic HD Arctic		0W-30						API CH-4, CF/SJ, 10 TBN, 1.2% ash

# Lubrication Technologies, Inc.

## Synthetic Lubricant Cross Reference Chart Series

### Synthetic Automotive API GL-4/GL-5 Gear Oils

	Family Name	SAE 75W-90	SAE 75W-140, 80W-140	Remarks
<b>Acculube</b>	Heavy Duty Gear Oil	75W-90	80W-140	PAO
<b>Aceites Y Parafinas (Mexico)</b>	Sun Gear Gold Syn	75W-90	80W-140	Arvin Meritor Approved
<b>Addinol (Germany)</b>	Gear Oil GH 75 W 90 SL	75W-90		
	Gear Oil GS 75 W 80 SL	75W-80		API GL-4
<b>Add Oil (Malaysia)</b>	Syngear	75W-90		
<b>Agip (Italy)</b>	apilube EPSINT	75W-90		
	Rotra SX	75W-90		
	Rotra SX-X	75W-90		
<b>Allegheny Petroleum</b>	Altra Syntec SHL GT-7	75W-90	75W-140	Arvin Meritor Approved
<b>Allied Oil &amp; Supply</b>	Allied Mag Synthetic EP	75W-90	75W-140	Arvin Meritor & Roadranger Approved
<b>Amalie</b>	Synthetic Gear Lubricant	75W-90	80W-140	Arvin Meritor Approved
	Elixir Synthetic Gear Lubricant	75W-90		
<b>Amalie Petroquimica (Spain)</b>	Gear Lube EP Synt	75W-90		
<b>American Agip</b>	Rotra LSX	75W-90		
	Syn-Gear EP4	75W-90		
	Syn-Gear EP5/6		(80W-140)	Roadranger Approved
	Syn-Gear EP	75W-90	80W-140	Arvin Meritor & Roadranger Approved
<b>American Synthol</b>	Amerilube SGL	75W-90	80W-140	
<b>Amtecol</b>	Dura Life Synthetic Gear Oil	75W-90		
<b>AMSOIL</b>	115 Synthetic Gear Oil	75W-90		Roadranger Approved
	120 Synthetic Gear Lube		80W-140	Roadranger Approved
	-----	AGR, TGR	AGO (85W-140), TGO (75W-140)	
	-----	SVG, AGL	SVO	Dana SHAES 234
	-----	FGR	FGO	Dana SHAES 256
<b>Anderol</b>	850-	75W-90	API GL-4 75W-140	
<b>Anglo Design Pty Ltd</b>	Anglomoil Road Master Axle S		80W-140	Roadranger Approved
<b>Aral/BP (Germany)</b>	BS	75W-90		
	BS-LSX		75W-140	Limited Slip
	SNA-C	75W-90		
	SNS-B	75W-80		API GL-4
<b>Aztec (UK)</b>	Synthetic Gear Oil			
<b>Bardahl</b>	Bardahl Gear Oil Fully Synthetic	75W-90	80W-140	Roadranger Approved
	XTG 100% Synthetic Gear Oil	75W-90		
<b>Benz Oil</b>	Syn-Tech	75W-90	80W-140	Arvin Meritor Approved
<b>BG Products</b>	Ultra-Guard	75W-90		PAO

	<i>Family Name</i>	<i>SAE 75W-90</i>	<i>SAE 75W-140, 80W-140</i>	<i>Remarks</i>
<b>Black Bear</b>	SYN-EP Gear Lubricant	75W-90	80W-140	Arvin Meritor Approved
<b>BP</b>	Energear SHX-A	75W-90	80W-140	
	Syn-Gear	75W-90	80W-140	Roadranger Approved
<b>BP New Zealand</b>	BP Transgear S		80W-140	Roadranger Approved
<b>Brad Penn (ARG)</b>	Full Synthetic Hypoid Gear Lubricant	75W-90	80W-140	Arvin Meritor Approved
<b>C&amp;C</b>	Duration Differential Oil	75W-90	80W-140	
<b>Caltex Australia</b>	SYNSTAR GL	75W-90	80W-140	Roadranger Approved
<b>Cam2</b>	Synavex Gear Lubricant	75W-90	75W-140, 80W-140	
<b>Case IH</b>	Gear Lube SSL	75W-90		
<b>Castrol</b>	Syn-Gear	75W-90	80W-140	Arvin Meritor & Roadranger Approved
<b>Castrol Australia</b>	SYNTRAX E			Roadranger Approved
<b>Caterpillar</b>	FDAO Syn		80W-140	
<b>Cenex/Farmland</b>	Maxtron GL	75W-90	80W-140	Arvin Meritor Approved
<b>Central Petroleum</b>	Cen-Pe-Co Synthetic G.L.	75W-90		
<b>Cepsa (Spain)</b>	Transmission EP FE LD	75W-90		
<b>Champion</b>	HTS Gear Lube	75W-90	80W-140	
<b>Chemtool</b>	Dyno-Tech HD	75W-90	80W-140	
<b>Chevron</b>	Tegra Synthetic Gear Lubricant	75W-90	80W-140	PAO
	RPM Synthetic Gear Lubricant	75W-90	80W-140	PAO, Arvin Meritor & Roadranger Approved
	Delo Synthetic Gear Lubricant	75W-90	80W-140	Arvin Meritor & Roadranger Approved
<b>CHS</b>	Maxtron GL	75W-90	80W-140	Roadranger Approved
<b>Citgo</b>	Citgear HD	75W-90	80W-140 75W-140	
	Synthetic Gear Lubricant	75W-90	80W-140	Arvin Meritor & Roadranger Approved
	Mystik Synguard SX-7000	75W-90	80W-140	Arvin Meritor Approved
<b>Cognis</b>	Emgard UAF 4209	75W-90		DaimlerChrysler, MAN, ZF
	Emgard RW-A	75W-90		RR Axle Applications, Voith, ZF
	Emgard Syn. Axle Lubricant	75W-90 (Dana SHAES-256C)	80W-140 (Dana SHAES-429)	Roadranger, ArvinMeritor, Mack, IH
	Emgard FE Syn. Axle Lubricant	75W-90		Roadranger & ArvinMeritor Approved
<b>Commercial Importada (Mex)</b>	Q. S. Synquest Gear		80W-140	Arvin Meritor Approved
<b>Conoco</b>	Syncon HP Synthetic Gear Oil*	75W-90	80W-140	Arvin Meritor & Roadranger Approved
	76 Triton Synlube LDO*	75W-90	80W-140	
<b>CountryMark Cooperative</b>	Advantage Full Synthetic	75W-90	80W-140	Roadranger Approved
<b>Cyclon (Greece)</b>	Gear Synthetic	75W-90		
<b>D-A</b>	Syn-Sure Syn. Lube	75W-90	80W-140	Arvin Meritor & Roadranger Approved
<b>David Weber</b>	Gibraltar Syn-Gear EP	75W-90	80W-140	Arvin Meritor & Roadranger Approved
<b>Eaton</b>	Roadranger EP Synthetic Gear Lubricant	75W-90	80W-140	Arvin Meritor & Roadranger Approved
	Roadranger FE Fuel Efficient Synthetic	75W-90	80W-140	Arvin Meritor & Roadranger Approved
<b>ELF</b>	Tranself Syn FE	75W-90	75W-140	
	Tranself Syn TRZ	75W-80		
	TranselfSyn TRX		80W-140	
	Tranself Syn U FE		80W-140	
	Tranself Syn BM	75W-90		
	HTX 752		80W-140	
<b>Eurol (Netherlands)</b>	Fultrasyn	75W-90		
<b>Exxon</b>	SGO (Synthetic Automotive Gear Oil)	75W-90	80W-140	PAO, discontinued
<b>Federated Co-op (Canada)</b>	Sonic MP Gear Oil	75W-90	80W-140	Roadranger Approved
<b>Ford</b>	Motorcraft Synthetic Rear Axle Lubr.	75W-90		
	Motorcraft Fuel Efficient HP Syn. Axle	75W-90		

	<i>Family Name</i>	<i>SAE 75W-90</i>	<i>SAE 75W-140, 80W-140</i>	<i>Remarks</i>
<b>Fuchs (Germany)</b>	Titan Cytrac SL	75W-90		
	Titan Cytrac HSY	75W-90		
	Titan Speed SL	75W-90		
	Titan Gear HLS 7590	75W-90		
<b>Fuchs Australia</b>	Titan Gear Syn 75140		75W-140	
	Titan Syndrive	75W-90	80W-140	Canada, Roadranger Approved
	Tutela Truck FE Axle Gear Syn 80140		(80W-140)	Roadranger Approved
<b>Fuchs Canada</b>	Titan Syndrive	75W-90	80W-140	Arvin Meritor Approved
<b>General Motors</b>	Synthetic Axle Lubr. 12345841	75W-90	80W-140	Arvin Meritor & Roadranger Approved
<b>Great Wall Sinopec China)</b>	Great Wall Syn Heavy Duty Gear Lubr.	75W-90	75W-140	
<b>Growmark</b>	FS Synthetic	75W-90	80W-140	Arvin Meritor Approved
<b>Gulf Oil</b>	Syngear	75W-90	80W-140	PAO, Arvin Meritor Approved
<b>Gulf Oil Ltd (India)</b>	Syngear HD	75W-90		Roadranger Approved
	Syngear FE	75W-90		Roadranger Approved
	Syngear EP	75W-90		PAO, API GL-5
<b>Hicks Oil</b>	Venom Synthetic GL-5		75W-140	
<b>Hydrotex</b>	Syn-Gear		75W-140	
<b>Idemitsu Kosan (Japan)</b>	Synthetic High Performance Gear Oil	75W-90	75W-140	
<b>Igol (France)</b>	SyntheGear	75W-90		
<b>Industrial Oils Unlimited</b>	Hi-Tek Synthetic	75W-90	80W-140	Arvin Meritor & Roadranger Approved
<b>Intercontinental</b>	Golden Spectro Full Synthetic Differential	75W-90	75W-140	
<b>International Truck &amp; Engine</b>	Fleetrite Synthetic	75W-90	80W-140	Arvin Meritor & Roadranger Approved
<b>IPAC</b>	Imperial SGO	75W-90	80W-140	Arvin Meritor Approved
<b>Irving Oil (Canada)</b>	Syn HDH	75W-90	80W-140	Arvin Meritor & Roadranger Approved
	Cobra Synthetic Diff	75W-90		
<b>JAX</b>	Syngear GL	75W-90	80W-140	PAO
<b>Kendall</b>	Elite Synthetic Gear Lubricant	75W-90	80W-140	
	Super Three Star Synthetic Gear Lubricant	75W-90	80W-140	
	SHP Full Synthetic Gear Lubricant	75W-90	80W-140	Arvin Meritor & Roadranger Approved
<b>Kost USA</b>	KOSTGard Syngear	75W-90	80W-140	
<b>Kuwait Petroleum</b>	Q8 T65	75W-90		
<b>Leprinxol (Germany)</b>	Super Gear Synth	75W-90		
<b>Liqua-Tek</b>	H-D Plus Syn-Gard	75W-90	80W-140	PAO
<b>Lotus (Poland)</b>	Synthetic Gear Oil		75W-140	
<b>Lubemaster</b>	Lubemaster Synthetic EP	75W-90	80W-140	Arvin Meritor Approved (Div. Certified Labs)
<b>LubLine</b>	Synthetic High Performance Gear Oil	75W-90		
<b>Lubricants USA</b>	see Total			
<b>Lubricating Specialties</b>	SynGear	75W-90	75W-140	API GL-5
	SynGear Limited Slip	75W-90		API GL-5
<b>Lubrication Engineers</b>	9921 & 9922 Synolec	75W-90 (9921)	80W-140 (9922)	Arvin Meritor & Roadranger Approved
<b>Lucas</b>	Synthetic Gear Oil	75W-90		
<b>Luxoil (Russia)</b>	Macno	75W-90		PAO
<b>Mack</b>	Bulldog Synthetic Gear Lubricant	75W-90	80W-140	Arvin Meritor & Roadranger Approved
<b>Marathon</b>	Marathon Full Synthetic	75W-90	80W-140	Roadranger Approved
	Heavy Duty Synthetic Gear Lubricant	75W-90	80W-140	

	Family Name	SAE 75W-90	SAE 75W-140, 80W-140	Remarks
<b>McCollister</b>	United Syn Gear	75W-90	80W-140	Arvin Meritor Approved
	Archer Synthetic	75W-90	80W-140	Arvin Meritor Approved
<b>Meguin (Germany)</b>	Megol Getriebeoel Truck-Synth	75W-90		PAO
<b>Metatron (Mexico)</b>	Metatron 691		75W-140	PAO
	Metatron 740		80W-140	Meritor
<b>Mexicano de Lubricantes (Mex)</b>	Akron Axle Synthetic	75W-90	80W-140	Arvin Meritor Approved
<b>Millers Oils (UK)</b>	TRX Synth	75W-90		
	Mobilube SHC	75W-90	80W-140	discontinued, Arvin Meritor & Roadranger Approved
<b>Mobil</b>	Mobil 1 Synthetic Gear Lube	75W-90	80W-140	discontinued
	Mobil 1 Synthetic Gear Lube LS	75W-90	75W-140	
	Delvac Synthetic Gear Oil	75W-90	80W-140	Arvin Meritor & Roadranger Approved
<b>Mogul/Unipetrol (Czeck)</b>	Syntrans	75W-90		API GL-4+
<b>Mopar</b>	Synthetic with LS additive	75W-90		
<b>Motorex (Switzerland)</b>	Unisynt SF GL-4	75W-85		API GL-4
	Unisynt ZX GL-4+5	75W-90		API GL-4, 5
	Penta LS GL-5	75W-90	75W-140	
<b>Motul</b>	Hypo Synt	75W-90		
<b>Morris (UK)</b>	Lodexol FS	75W-90		
	SX-7000	75W-90	80W-140	Roadranger Approved
<b>Navistar/International</b>	Fleetrite Synthetic Gear Oil	75W-90	80W-140	
	<b>Neste (Finland)</b>	Hypoidi S	75W-90	75W-140
Gear S		75W-90		API GL-4
Hypoidi TDL S		75W-90		Total Drive Line
<b>NemCo (Canada)</b>	NEMCO Syngear	75W-90	80W-140	Arvin Meritor & Roadranger Approved
<b>NEO Synthetic</b>	NEO Synthetic Gear Lube	75W-90 RHD	80W-140	Arvin Meritor Approved
<b>New Holland – Ambra</b>	Hypoide SSL Gear Lube	75W-90		
<b>Northland</b>	Synergy Syn. Gear Lube EP	70W-90	80W-140	Arvin Meritor & Roadranger Approved
<b>Oberon (Singapore)</b>	F808 Synthetic Gear Lube	75W-90	75W-140, 75W-250	
	F806	75W-90	80W	API GL-4
<b>Orlen (Poland)</b>	HIPOL Synthetic GL-5		75W-140	
<b>PACCAR</b>	Kenworth Synthetic Orig. Factory Fill	75W-90	80W-140	Roadranger Approved
	Peterbilt Synthetic Orig. Factory Fill	75W-90	80W-140	Roadranger Approved
<b>Paramo/Unipetrol (Czeck)</b>	Gyrol Syn	75W-90		
<b>Pennzoil</b>	Synthetic SAE 75W-90 GL-4	75W-90		API GL-4
	Synthetic SAE 75W-90 GL-5	75W-90		API GL-5, formerly GearPlus Super
	Long Life Syngear EW	75W-90	80W-140	Roadranger Approved (75W-90)
	Long-Life EW	75W-90	80W-140	Arvin Meritor & Roadranger Approved
	Long-Life Super EW	75W-90	80W-140	Roadranger Approved
<b>Penrite (Australia)</b>	Synthetic Gear Oil	75W-90	80W-140	API GL-5, GL-6
<b>Petro-Canada</b>	Syngear E	75W-90	80W-140	
	Traxon E Synthetic	75W-90	80W-140	Arvin Meritor & Roadranger Approved
<b>Petronas (Malaysia)</b>	????????????????????			
<b>Petronomics</b>	-----	51060	51062	
		55392		
<b>Phillips</b>	Syncon HP Synthetic Gear Oil*	75W-90	80W-140	Arvin Meritor & Roadranger Approved
	Philguard Synthetic Gear Oil	75W-90		Roadranger Approved
	76 Triton Synlube LDO*	75W-90	80W-140	
<b>Pinnacle</b>	National Full Synthetic Gear Lubricant	75W-90	80W-140	Roadranger Approved

	Family Name	SAE 75W-90	SAE 75W-140, 80W-140	Remarks
<b>Pitt-Penn</b>	Syntec GT-7	75W-90	80W-140	
<b>Primrose Oil</b>	745 & 746 Syn-O-Gen Synthetic EP	75W-90 (745)	80W-140 (746)	
<b>Quaker State</b>	FCI Full Synthetic Gear Oil	75W-90	80W-140	Arvin Meritor Approved
<b>Raloy</b>	Transintex Plus EP	75W-90	80W-140	Arvin Meritor Approved
<b>Ravenol (Germany)</b>	Ravenol VSG	75W-90		
	Ravenol SLS		75W-140	Sport Limited Slip
<b>Red Line</b>	Synthetic GL-5 Gear Oil	75W-90	80W-140	
	MTL			API GL-4
<b>Roadranger</b>	see Eaton			
<b>Rosemead</b>	Premium Express Gear Oil	75W-90		Roadranger Approved
<b>Rowe (Germany)</b>	Higear Topgear S	75W-90		API GL-4/5
<b>Royal Manufacturing</b>	Monarch Syngear Plus	75W-90	80W-140	Arvin Meritor & Roadranger Approved
<b>Royal Purple</b>	Max Gear	75W-90	75W-140	
<b>Schaeffer</b>	167 Moly Full Synthetic Gear Lube		75W-140	PAO, contains moly
	741, 740 Synthetic Lube EP	75W-90 (741)	80W-140 (740)	PAO, Arvin Meritor & Roadranger Approved
	751M Synthetic Lube EP	75W-90		PAO, contains moly
<b>Sentinel Canada</b>	SenSyn	75W-90	80W-140	
<b>Shell</b>	Spirax S	75W-90	80W-140	Arvin Meritor & Roadranger Approved
	Spirax EW	75W-90	80W-140	Roadranger Approved
	Spirax ASX R	75W-90		Roadranger Approved
<b>Shell Canada</b>	Spirax ASX		80W-140	high performance
	Spirax S	75W-90	80W-140	Roadranger Approved
<b>Silogram</b>	Syn Gear EP	75W-90	80W-140	
<b>Sinclair</b>	Dyno-Tech HD	75W-90	85W-140	
<b>SLFi</b>	SL-	75W-90	80W-140	
<b>Smitty's</b>	SuperSyn Gear Oil			
<b>Southern FS</b>	FS GL-5 Synthetic Gear Oil	75W-90		
<b>Spectro</b>	Golden Spectro Full Syn. Differential	75W-90	75W-140	
<b>Statoil (Norway)</b>	GearWay S5	75W-90		MB 235.11
	GearWay S6		85W-250	API GL-6
	Syntol	75W-90	75W-140	
	Syntol LS	75W-90		
	Gerol	75W-90		API GL-1/GL-4
<b>Sunoco (UK) &amp; (Belgium)</b>	GL-5 Synthetic Superflo	75W-90	75W-140	
<b>Sun Japan</b>	Racing Gear	75W-90	75W-120	
<b>Summit (Kluber NA)</b>	Syngear	75W-90	80W-140	PAO
<b>Synergy Additives (Mexico)</b>	Synergy Syntech	75W-90	80W-140	Roadranger Approved
<b>Synergyn</b>	Synergyn Speedway Gear Lubricant	0W-75		
	Synergyn Blended Synthetic Gear Lube	80W-90		
<b>Taylor Petroleum</b>	Emgard EP Gear Lubricant	75W-90		
<b>Texaco</b>	Syn-Star GL	75W-90	80W-140	Arvin Meritor & Roadranger Approved
<b>TEXASTEAL</b>	Full Synthetic Gear Lube	75W-90	75W-140, 80W-140	
	Full Synthetic Long Drain Gear Lube	75W-90	80W-140	
<b>Torco</b>	SGO Synthetic	75W-90		
<b>TOTAL</b>	Transmission Syn FE	75W-90		Roadranger Approved
	Transmission Syn NA	75W-90	80W-140	Arvin Meritor & Roadranger Approved
	Transmission TX	75W-90		

	<i>Family Name</i>	<i>SAE 75W-90</i>	<i>SAE 75W-140, 80W-140</i>	<i>Remarks</i>
<b>TOTAL (cont)</b>	Transmission XSV FE	75W-90		API GL-4
	Transmission BM	75W-90		MB 235.8
<b>TRC</b>	Syntex 2700	75W-90	80W-140	Arvin Meritor & Roadranger Approved
<b>Ultramar (Canada)</b>	Ultramar Synthetic	75W-90		Roadranger Approved
	HD Synthetic Gear EP	75W-90	80W-140	Roadranger Approved
<b>Unil Opal (France)</b>	Gerion Drive	75W-90	75W-140	
<b>Universal Lubricants</b>	Dyna-Plex 21C Synzol	75W-90	80W-140	Arvin Meritor Approved
<b>Valvoline</b>	SynPower Gear Oil	75W-90		
	HD Synthetic Gear Oil EP	75W-90	80W-140	Arvin Meritor & Roadranger Approved
<b>Verco Intl (Canada)</b>	Superflo Syn Gear	75W-90	80W-140	Roadranger Approved
<b>Verkol (Spain)</b>	Verkol ZF-7	75W-80		GL-4
	Verkol GT-8	75W-90		
<b>Warren Distribution</b>	MAG 1	75W-90	75W-140	
<b>Warren Oil Co., Inc.</b>	Autogard Fleet Synthetic	75W-90	80W-140	Roadranger Approved
	Lubriguard Fleet Synthetic	75W-90	80W-140	Roadranger Approved
	Lubriguard Heavy Duty Synthetic	75W-90	80W-140	Arvin Meritor & Roadranger Approved
	Service Pro Synthetic	75W-90	80W-140	Roadranger Approved
<b>Wladoil (Italy)</b>	Gear Oil Special EP		80W-140	
	Gear Synthetic Oil	75W-90		
<b>Whitmore</b>	Decathlon HD	75W-90	80W-140	
<b>Wunsch (Germany)</b>	Syntholube A	75W-90	75W-140	
	Syntholube MB	75W-90		GL-4, MB 235.11, 235.4
<b>Xtrac (UK)</b>	XL1	75W-90		
<b>Yacco (France)</b>	BVX 1000	75W-90		
<b>Zeller+Gmelin (Germany)</b>	DIVINOL Synthogear SL	75W-90		
	DIVINOL Synthogear Extra LS	75W-90		Limited Slip
<b>76 Lubricants</b>	Triton Syn Lube EP	75W-90	80W-140	Arvin Meritor & Roadranger Approved
	Triton Synlube LDO*	75W-90	80W-140	Arvin Meritor Approved
	Syncon HP Synthetic Gear Oil*	75W-90	80W-140	Arvin Meritor & Roadranger Approved

\* Conoco/Phillips/76Lubricants family



# Lubrication Technologies, Inc.

## Synthetic Lubricant Cross Reference Chart Series

### Synthetic SAE 50 Manual Transmission Fluids

	<i>Name</i>	<i>Remarks</i>
<b>Acculube</b>	Syn Trans CD-50	
<b>Allegheny Petroleum</b>	Altra Syntec CD-50	ArvinMeritor Approved
<b>Allied Oil &amp; Supply</b>	Allied Mag Synthetic 50	ArvinMeritor & Roadranger Approved
<b>Amalie</b>	Synthetic Manual Transmission Fluid GL-1 SAE 50	
<b>American Agip</b>	Syn-Trans CD-50	ArvinMeritor & Roadranger Approved
<b>AMSOIL</b>	260 SAE 50 Synthetic Transmission Fluid	Roadranger Approved
	MTG Manual Transmission & Transaxle Gear Lube	
<b>Anglo Design Pty Ltd.</b>	Anglomoil Road Master Gear 50-S	Roadranger Approved
<b>Bardahl</b>	Bardahl Gear Oil Fully Synthetic SAE 50	Roadranger Approved
<b>Benz Oil</b>	Syn-Tech CD-50	ArvinMeritor Approved
<b>Black Bear</b>	SYN-CD Gear Lubricant 50	ArvinMeritor Approved
<b>BP</b>	Energear SHX-G	
	Transmission Oil S-CD 50	ArvinMeritor & Roadranger Approved
	Syn-Gear CD-50	Roadranger Approved
<b>BP New Zealand</b>	Transmission Oil S-CD50	Roadranger Approved
<b>Brad Penn (ARG)</b>	Full Synthetic Manual Transmission Lubricant SAE 50	
<b>Caledonian</b>	Synthetic CD-50	ArvinMeritor Approved
<b>Caltex</b>	Synstar TL 50	ArvinMeritor Approved
<b>Caltex Australia</b>	Synstar GL 50	Roadranger Approved
	Syndrive 50 E	ArvinMeritor Approved
	Syntrans M	
<b>Cam2</b>	Synthetic Transmission Fluid SAE 50	
	Synavex Transmission Fluid SAE 50	
<b>Canadian Turbo</b>	Red Ram Syn-Tran CE-50	ArvinMeritor Approved
<b>Castrol</b>	Syn-Gear CD 50	Roadranger Approved
	SYNDRIVE 50 E	Roadranger Approved
<b>Castrol New Zealand</b>	Syntrans	
	Syntrans AT	for MB Actros & Atego,, MB 235.11
<b>Cenex</b>	Maxtron MT 50	ArvinMeritor Approved
<b>Champion</b>	HTS Manual Transmission Fluid	
<b>Chemtool</b>	Dyno-Tech Synthetic 50	
<b>CHS</b>	Maxtron MT SAE 50	Roadranger Approved
<b>Chevron</b>	Texaco Syn-Star TL 50	Roadranger Approved
	RPM Synthetic Transmission Fluid 50	ArvinMeritor Approved
	Delo Synthetic Transmission Fluid 50	Roadranger Approved

	<i>Name</i>	<i>Remarks</i>
<b>Citgo</b>	Synthetic Gear Lubricant CD-50 Citgear HD 50	ArvinMeritor & Roadranger Approved
<b>Cognis</b>	Mystik Synguard SX-7000 SAE 50 Emgard MTF 4250 Emgard SAE 50 Synthetic Transmission Lubricant	ArvinMeritor Approved Volvo 97315 Roadranger, IH, ArvinMeritor, ZF, Mack Approved
<b>Commercial Importadora (Mexico)</b>	QS Synquest CD-50	Roadranger Approved
<b>Conoco</b>	Triton Synthetic Transoil 50	Roadranger Approved
<b>CountryMark Cooperative D-A</b>	Advantage Full Synthetic Syn-Sure Synthetic Lube SAE 50 Synergy Synthetic Lube 50	Roadranger Approved Roadranger Approved ArvinMeritor Approved
<b>David Weber</b>	Gibraltar Syn-Gear CD-50	ArvinMeritor Approved
<b>Eaton</b>	Roadranger SAE 50	ArvinMeritor & Roadranger Approved
<b>Exxon</b>	SGO 50 (Synthetic Automotive Gear Oil) Synthetic Automotive Gear Oil 50	
<b>Farmland</b>	Synthetic Transmission Oil 50	ArvinMeritor Approved
<b>Federated Co-op</b>	Sonic MP Gear Oil 50	Roadranger Approved
<b>Ford</b>	Motorcraft Full Synthetic Manual Transmission Fluid	
<b>Fuchs (Australia)</b>	Titan Gear Syn 50 Tutela Gear XLD	Roadranger Approved Roadranger Approved
<b>Fuchs (Canada)</b>	Titan Syndrive 50	Roadranger Approved
<b>Fuchs (Germany)</b>	Titan Gear Syn 50	
<b>General Motors</b>	Synthetic Manual Transmission Fluid 12345724	ArvinMeritor & Roadranger Approved
<b>Great Wall Sinopec (China)</b>	Great Wall Syn Manual Transmission Fluid	
<b>Gulf Oil (ARG)</b>	Synthetic Transmission Oil 50	ArvinMeritor Approved
<b>Gulf Oil India</b>	Syngear LL 50	Roadranger Approved
<b>Hydrotex</b>	Synthetic SAE 50	ArvinMeritor Approved
<b>Industrial Oils Unlimited</b>	Hi-Tek Synthetic 50	Roadranger Approved
<b>International Truck &amp; Eng.</b>	Fleetrite Synthetic SAE 50 Transmission Oil	ArvinMeritor & Roadranger Approved
<b>Irving Oil (Canada)</b>	Synthetic IDO 50 Cobra Syn Trans Maxxum 50	ArvinMeritor & Roadranger Approved
<b>JAX</b>		
<b>Kendall</b>	SHP Synthetic Manual Transmission Gear Lubricant 50 Conoco Phillips Kendall SHP Transoil 50	Roadranger Approved
<b>Liqua-Tek</b>	H-D Plus Syn-Gard 50	ArvinMeritor Approved
<b>Lubemaster</b>	Synthetic 50 Transmission Lube	
<b>Lubricants USA</b>	see Total USA	
<b>Lubrication Engineers</b>	650 Transmission Lubricant 50	ArvinMeritor & Roadranger Approved
<b>Mack</b>	Bulldog Synthetic Trans Lube 50	ArvinMeritor & Roadranger Approved
<b>Marathon</b>	Marathon Full Synthetic SAE 50 HD Synthetic Transmission Fluid 50	Roadranger Approved
<b>McCullister</b>	United Syn Gear 50 Archer Trans Fifty	
<b>Metatron (Mexico)</b>	Metatron 742	
<b>Mobil</b>	Mobiltrans SHC 50 Delvac Synthetic Transmission Fluid 50	Roadranger Approved
<b>Monarch Oil Ltd</b>	ERSYNCD-50	ArvinMeritor Approved

	<i>Name</i>	<i>Remarks</i>
<b>Mystik</b>	SX-7000 SAE 50	Roadranger Approved
<b>Navistar/International</b>	Fleetrite Synthetic 50 Transmission Oil	ArvinMeritor & Roadranger Approved
<b>NemCo Resources (Canada)</b>	NEMCO Syntrans 50	Roadranger Approved
<b>NEO</b>	NEO SAE 50 Synthetic Transmission Oil	
<b>Northland Products</b>	Synergy Synthetic Transmission Fluid 50	ArvinMeritor & Roadranger Approved
<b>PACCAR</b>	Kenworth Synthetic SAE 50 Orig. Factory Fill Fluid	Roadranger Approved
	Peterbilt Synthetic SAE 50 Orig. Factory Fill Fluid	Roadranger Approved
<b>Pennzoil</b>	Long Life Transmission Fluid EW-50	Roadranger Approved
<b>Penrite Australia</b>	Synfleet 50	Roadranger Approved
<b>Petro-Canada</b>	Syngear E CD 50	ArvinMeritor Approved
	Traxon E Synthetic CD-50	Roadranger Approved
	51058	
<b>Petronomics</b>		
<b>Phillips 66</b>	Synthetic Transoil 50	Roadranger Approved
<b>Pinnacle</b>	National Full Synthetic Lubricant SAE 50	Roadranger Approved
<b>Primrose Oil</b>	744 Syn-O-Gen CD-50 Transmission Lubricant	
<b>Quaker State</b>	FCI Synthetic Transmission Fluid CD 50	ArvinMeritor Approved
<b>Raloy</b>	Transintex Plus CD-50	ArvinMeritor & Roadranger Approved
<b>Ravenol (Germany)</b>	Ravenol VSG Truck 50	Meets Eaton PS-164 Rev. 7
<b>Redline</b>	Synthetic Manual Transmission 50	
<b>Royal Manufacturing</b>	Monarch Syntran Plus 50	Roadranger Approved
<b>Schaeffer</b>	742 Synthetic Lubricant 50W E/A	ArvinMeritor & Roadranger Approved
<b>Sentinel</b>	S CD 50	
<b>Sentinel Canada</b>	SEN SYN CD-50E	ArvinMeritor Approved
<b>Shell Canada</b>	Spirax GSX SAE 50	Roadranger Approved
<b>Shell</b>	Spirax GSX SAE 50	Roadranger Approved
<b>Shell Australia</b>	Dentax S	Roadranger Approved
<b>Silogram</b>	Syn Gear CD 50	ArvinMeritor Approved
<b>Sinclair</b>	Dyno-Tech Synthetic 50	
<b>Smitty's</b>	SuperSyn Trans-Fluid 50	
<b>Southern FS</b>	FS Synthetic 50 Transmission Fluid	
<b>Summit (Klubers NA)</b>	Syntenal CD 50 EQ	
<b>Synergy Additives (Mexico)</b>	Synergy Syntech 50	Roadranger Approved
<b>Taylor Petroleum</b>	Emgard SAE 50 Transmission Fluid	
<b>Texaco</b>	Syn-Star TL 50	ArvinMeritor & Roadranger Approved
<b>TEXASTEAL</b>	Full Synthetic CD-50 MTF	
<b>Total</b>	Transmission SYN SAE 50	ArvinMeritor & Roadranger Approved
<b>TRC</b>	Syntex 2000	ArvinMeritor & Roadranger Approved
<b>Ultramar (Canada)</b>	Ultramar Synthetic 50	Roadranger Approved
<b>Universal Lubricants</b>	Dyna-Plex 21C Synzol SAE 50	ArvinMeritor Approved
<b>Valvoline</b>	Heavy Duty Synthetic Trans Oil 50	Roadranger Approved
<b>Verco Intl. (Canada)</b>	Superpro Syn Trans CE-50	Roadranger Approved
<b>Warren Oil Co., Inc.</b>	Autoguard Fleet Synthetic SAE 50	Roadranger Approved
	Lubriguard Fleet Synthetic SAE 50	Roadranger Approved
	Lubriguard Heavy Duty Synthetic SAE 50	
	Service Pro Synthetic SAE 50	Roadranger Approved
<b>76 Lubricants</b>	Triton Synthetic Transoil 50	Roadranger Approved

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Lubrication Technologies, Inc.  
Houston, TX 77082  
www.lubritecinc.com

# Lubrication Technologies, Inc.

## Synthetic Lubricant Cross Reference Chart Series

### Synthetic Automatic Transmission Fluids

	<i>Name</i>	<i>Remarks</i>
<b>Addinol (Germany)</b>	ATF D II E	Dexron-II, Mercon, MB 236.8, ZF TE-ML-04D, 09X, 14C, 16M
<b>Advanced Lubr. Spec.</b>	Advantage Universal Synthetic ATF	Dexron-III, Mercon V, Chrysler ATF+4, BMW, Toyota, ZF, Audi, Mitsubishi, Lexus
<b>Agip</b>	ATF II E	Dexron-III
<b>Amalie</b>	Amalie DEXRON®-VI Synthetic ATF	DEXRON®-VI
	Wolf's Head DEXRON®-VI Synthetic ATF	DEXRON®-VI
	Xcel DEXRON®-VI Synthetic ATF	DEXRON®-VI
	Universal Synthetic Automatic Transmission Fluid	Dexron-III, Mercon V, Chrysler ATF+4, BMW, Toyota, ZF, Audi, Mitsubishi, Lexus
<b>American Synthol</b>	Amerilube ATF-III	Dexron-III, Mercon
<b>AMSOIL</b>	Syn ATF Univ. Auto. Transmission Fluid (ATF)	Dexron-III, Mercon V, Chrysler ATF+4
	Syn ATF Fuel Efficient Auto. Transmission Fluid (ATL)	Dexron-VI, Mercon LP, Mercon SP, Toyota WS
	Allison Transmission ATF Torque Drive (ATD)	Allison TES-295 Performance or C-4, Dexron-III, Mercon
	Synthetic Racing ATF (ART)	Allison C-4, Ford Type F
<b>Anderol</b>	888 ATF	PAO Dexron-III Automatic Transmission Fluid
<b>Aral/BP (Germany)</b>	ATF E-S	Dexron-II-E, MB 236.8 Automatic Transmission Fluid
<b>Aztec (UK)</b>	Synthetic ATF Type III	Dexron-III/Mercon Automatic Transmission Fluid
<b>BG Products</b>	Universal Synthetic ATF	Dexron-III/Mercon Automatic Transmission Fluid
<b>BP</b>	Autran Syn 295	Dexron-III Automatic Transmission Fluid, Allison TES-295 Approved
<b>Cam2</b>	Synthetic ATF Dexron-VI	Dexron-VI Approved, GM 10060 Automatic Transmission Fluid
<b>Carquest</b>	Dexron-VI Full Synthetic ATF	Dexron-VI Approved
<b>Castrol</b>	TransSynd	Allison TES-295 Approved
	Syntec Full Synthetic Dexron-III/Mercon ATF+4	Dexron-III/Mercon Automatic Transmission Fluid
<b>Cepsa</b>	ATF Synthetic	Chrysler ATF+4
	ATF 5000 SYNT LD	Dexron-III-E, Mercon, MB 236.8, ZF TE-ML 09X/14B/16L
<b>Champion Brands</b>	AllTrans Fleet Synthetic ATF	Dexron-IIIH, Mercon V, MB 236.6, ZF TE-ML 03D/04B/14B/16L/17C
<b>Chevron</b>	ATF+4® Automatic Transmission Fluid	Dexron-III/Mercon V, Chrysler ATF+4, TES-295 Performance
	Automatic Transmission Fluid DEXRON®-VI	Chrysler ATF+4
	Synthetic ATF HD	DEXRON®-VI
<b>CITGO</b>	Quatrasyn Synthetic Transmission Fluid 36 cSt@40C	Dexron-III/Mercon V
<b>Cognis</b>	Emgard 2803	Allison TES-295 Performance Automatic Transmission Fluid
	Emgard 2805	Dexron-III/Mercon Automatic Transmission Fluid
<b>CPC (Taiwan)</b>	Synthetic Automatic Transmission Fluid	Allison TES-295 Approved
<b>D-A</b>	Autotrans 5 ISO 32	Dexron-III/Mercon Automatic Transmission Fluid
<b>DSI</b>	Platinum Performance Super Heavy-Duty ATF	Multigrade ATF, Allison TES-295 Performance, Dexron-III & Mercon V
<b>Eurol (Netherlands)</b>	ATF III G Synthetic	PAO Dexron-III/Mercon
<b>Ford</b>	Motorcraft Premium Automatic Transmission Fluid PN XT-8-QAW	Dexron-III/Mercon Automatic Transmission Fluid
		WSS-M2C924-A

	<i>Name</i>	<i>Remarks</i>
<b>Forsythe (Canada)</b>	Synthetic ATF Dexron III/Mercon	Dexron-III/Mercon Automatic Transmission Fluid
<b>Fuchs</b>	TITAN ATF 5000 SL	Dexron IIE, Mercon, MB 236.8, ZF TE-ML 04D, 09X, 14B, 16M
	TITAN ATF 6000 SL	Dexron-VI
<b>Hicks Oil</b>	Venom Synthetic Super V	Dexron-III/Mercon, Mercon V
<b>International Truck &amp; Engine</b>	Fleetrite Synthetic ATF	Allison TES-295 Approved
<b>Kuwait Petroleum (Kuwait)</b>	Q8 Auto 15ED Synthetic Transmission Fluid	Dexron-iIIE, Voith DIWA 6336 Automatic Transmission Fluid
	Q8 Auto D VI	Dexron-VI
<b>Leprinxol (Germany)</b>	Matic Synth	Dexron-III
<b>Liqua-Tek</b>	H-D Plus Syn-Gard ATF	Dexron-III/Mercon Automatic Transmission Fluid
<b>Lubricants USA</b>	see Total	
<b>Lubricating Specialties</b>	Synthetic Unitran MVP Multi-Vehicle ATF	Mercon V, Allison C-4 & TES 295 Performance, JASO 1A, MB 236.9
<b>Mobil</b>	Mobil 1 Synthetic ATF	Dexron-III/Mercon Automatic Transmission Fluid
	Delvac Synthetic ATF	Allison TES-295 Approved, Allison C-4, Voith ATF
	SHC ATF	Dexron-III/Mercon Automatic Transmission Fluid
	Synthetic ATF Mercon V	Mercon V
<b>NEO</b>	NEO Synthetic ATF	Dexron-II, Mercon ATF
<b>Neste (Finland)</b>	ATF-S	Dexron-IIE, Mercon ATF
<b>Nippon Oil</b>	ENEOS EN-ATF Full Synthetic	Dexron-III, Mercon Automatic Transmission Fluid
	ENEOS Fully Synthetic CVT	for continuously variable transmissions
<b>Nissan</b>	Fasflo 100% Synthetic ATF Dexron III	Dexron III
<b>Nulon (Australia)</b>	100% Synthetic Multi Vehicle ATF	Dexron-III, Mercon
<b>Orlen (Poland)</b>	Hipol ATF II E	Dexron IIE/Mercon Automatic Transmission Fluid
<b>OMV (Austria)</b>	OMV ATF-S	Dexron IIE, Mercon, MB 236.8, ZF TE-ML 09A, 14C
<b>Panolin (Switzerland)</b>	ATF Synth	
<b>PDVSA (Venezuela)</b>	TRANSFLUIDO SINTETICO DVI	Dexron-VI
<b>Penrite (Australia)</b>	ATF Synthetic	Dexron-III/Mercon V
<b>Pentosin (Germany)</b>	Pentosin ATF 1	Dexron-III Automatic Transmission Fluid
<b>Pertamina (Indonesia)</b>	Synthetic ATF	Dexron-III/Mercon
<b>Petro-Canada</b>	DuraDrive™ MV Synthetic ATF	Mercon V
	DuraDrive MV Synthetic Automatic Transmission Fluid	Dexron-III, Mercon, Mercon V
<b>Petronomics</b>	51050	PAO, Dexron-III/Mercon Automatic Transmission Fluid
	51056	Dexron-III/Mercon Automatic Transmission Fluid
	Formula 7 PAO ATF	Dexron-III/Mercon
<b>Primrose Oil</b>	751 Syn-O-Gen Universal ATF	Dexron-II/Mercon Automatic Transmission Fluid
<b>Quaker State</b>	ATF+4 Full Synthetic	Chrysler ATF+4
<b>Ravenol (Germany)</b>	Autom.-Getr. Oel Dexron II E	Dexron IIE, MB 236.8, MAN 339 V-2, ZF TE-ML 09X, 14C, 16M, 14B, 16L
	T-IV Fluid	TOYOTA AISIN AW (PAO/GR.III Blend)
<b>Redline</b>	Synthetic ATF	Dexron-II, Mercon, Mercedes Benz ATF
	Synthetic D4 ATF	Toyota T-IV, Dexron-III, Mercon ATF
	Synthetic D6 ATF	Dexron-VI, Mercon SP ATF
	Synthetic High Temp ATF	Dexron-II, Mercon ATF
	Synthetic Racing ATF	Racing Auto Transmission Fluid
	Synthetic C+ATF	Chrysler MS7176 ATF
<b>Repsol (Spain)</b>	Matic Sintetico	Voith 55.6336, Dexron IIE/Mercon ATF, MB 236.8
	Matic III	Dexron-IIIG/Mercon, Voith 55.6336, Allison TES 389
<b>Royal Manufacturing</b>	Monarch Syntran ATF	Dexron-III, Mercon V ATF
	Multi –Trans Plus ATF	Dexron-III, Mercon, Mercon V
<b>Royal Purple</b>	Max ATF Synthetic	Dexron-III/Mercon Automatic Transmission Fluid

	<i>Name</i>	<i>Remarks</i>
<b>Schaeffer</b>	204SAT All Trans Supreme 205 Dexron-VI	Dexron-III-H/Mercon, Mercon V, ATF+4, Allison TES295 & 389 Dexron-VI
<b>Sentinel</b>	S-ATF	Dexron-III, Mercon
<b>Sentinel Canada</b>	SenSyn ATF	
<b>Shell</b>	Donax TX	Dexron-III, Mercon, ZF TE-ML 03D/04D/09/14B/16L/17C
<b>SLFi</b>	Auto Tran III	High Performance Automatic Transmission Fluid
<b>Smitty's Supply</b>	SuperSyn Universal Full Synthetic ATF Super S Dexron-VI ATF	Dexron-III, Mercon, Mercon V, Mercon SP, Mercon LV, CVT Dexron-VI
<b>Statoil (Norway)</b>	Syntomatic	Dexron-II, ZF-TE-ML 14B(C) MB 236.7 ATF
<b>Summit</b>	Synthetic ATF	Dexron-III/Mercon Automatic Transmission Fluid
<b>Sun (Japan)</b>	Racing ATF	Racing Auto Transmission Fluid
<b>SynLube</b>	Universal Lube-4-Life ATF	Dexron-III/Mercon V, Chrysler ATF+4
<b>Tedex (Poland)</b>	ATF Synthetic	
<b>Texaco</b>	Texamatic S	Dexron-III, MB 236.8, ZF TE-ML 09A/14C/16M
<b>TEXASTEAM</b>	Full Synthetic Long Drain ATF Allison TES-295	Allison TES-295
	Universal Full Synthetic ATF Dexron-III, C4, Mercon, Mercon V, ATF+4	Dexron-III, C4, Mercon, Mercon V, ATF+4
	Full Synthetic ATF Dexron-VI, Mercon SP	Dexron-VI, Mercon SP
<b>Total</b>	Fluidmatic Syn NA	Multi-vehicle
	Fluidmatic Syn FE	Dexron-II, MB 236.8
	Fluide Syn FE	Dexron III, MB Approval 236.8
	Dexron-VI	Dexron-VI
	Fluid Multi CVT	for continuously variable transmissions
	Fluid XLD FE	
<b>Toyota</b>	PN 08886-00405	T-IV
<b>Valvoline</b>	MaxLife Dexron/Mercon ATF	Dexron-VI, Mercon LV, Mercon SP
	Synthetic ATF+4	Chrysler ATF+4
	Dexron-VI ATF	Dexron-VI, Dexron -III, Dexron -II
<b>Wladoil (Italy)</b>	Synthetic ATF Dexron III	Dexron III
<b>Wolfs Head (Div. of Amalie)</b>	Super Universal Synthetic ATF	Dexron-III/Mercon V, Chrysler ATF+4
	Dexron-VI	Dexron-VI
<b>Wolf Oil (Belgium)</b>	ATF D III Synthetic	Dexron-III Automatic Transmission Fluid
<b>Wunsch Ole (Germany)</b>	ATF-SYN	Dexron-II/Mercon, MB 236.8 Automatic Transmission Fluid
<b>Wynn's</b>	Multi-Vehicle Synthetic ATF	Dexron-VI/Mercon V, Mercon VI
<b>Zeller+Gmelin (Germany)</b>	DIVINOL ATF S II E	Dexron-II Automatic Transmission Fluid

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# Lubrication Technologies, Inc.

## Synthetic Lubricant Cross Reference Chart Series

### Synthetic Low Horsepower Engine Oils

	<i>Name</i>	<i>SAE/ISO Viscosity Grade</i>	<i>Remarks</i>
<b>Addinol (Germany)</b>	Super Visco MV 0556	5W-50	4-Stroke Motorcycle Engine Oil
	Super Bike Racing 2T		API TC+, JASO FC, ISO-L-EGD 2-Stroke Motorcycle Racing Engine Oil
	Super Synth 2T MZ 408		API TC+, JASO FC, ISO-L-EGD 2-Stroke Motorcycle Engine Oil
	Biosynth 2T MZ 407		NMMA TC-W3, API TC, JASO FC, ISO-L-EGC 2-Stroke Engine Oil, Biodegradable
<b>Agip (Italy)</b>	apilube MixolSuperSint		API TC+, JASO FC 2-Stroke Motorcycle Engine Oil
<b>Aluchem (Italy)</b>	ALUSYNT 2T Competition		For Air-Cooled 2-Stroke Engines
<b>Amalie</b>	Synplus 2T Motorcycle Oil		API TC, JASO FC, ISO GC 2-Stroke Motorcycle Engine Oil
<b>American Agip</b>	Racing 4T 100% Synthetic	5W-40, 20w-50, 10w-60	JASO MA, ACEA A3 4-Stroke Motorcycle Engine Oil
	Agip Speed 2T		API TC, JASO FC, ISO GC 2-Stroke Motorcycle Engine Oil
<b>American Lubricating Co.</b>	Synthetic No Smoke Two Stroke Oil		API TC, JASO FD, ISO-L-EGD 2-Stroke Air-Cooled Engines
	Synthetic No Smoke Two Stroke Snowmobile Oil		API TC, JASO FD, ISO-L-EGD, Bombardier 253 2-Stroke
<b>American Synthol</b>	Amerilube Eagle G4C	5W-30, 5W-40, 10W-50	4-Stroke Motorcycle Engine Oil
	Amerilube Eagle 4GTC	10W-50	4-Stroke Motorcycle Engine Oil
<b>AMSOIL</b>	Interceptor (AIT)		API TC, JASO FC 2-Stroke
	Saber Professional (ATP)		NMMA TC-W3, API TC 2-Stroke
	Saber Outboard Synthetic 2-Cycle Oil (ATO)		NMMA TC-W3, API TC 2-Stroke
	HP Injector Synthetic 2-Cycle Oil (HPI)		NMMA TC-W3, API TC
	Dominator Synthetic 2-Cycle Racing Oil (TDR)		API TC, JASO FC 2-Stroke
	Formula 4-Stroke Marine Synthetic Motor Oil (WCF) 10W-40		NMMA FC-W 4-Stroke Gasoline Outboard Engine Oil
	Formula 4-Stroke Power Sports Synthetic Motor Oil (AFF) 0W-40		API SL/CF, JASO MA2 4-Stroke Gasoline Engine Oil
	Formula 4-Stroke (ASE)	10W-30	API SL/CG-4, CF, JASO MA/MA2, ISO-L-EMA2
	HighEnergy 2T		JASO FC, ISO-L-EGD 2-Stroke
	SuperEnergy 2T		JASO FC, ISO-L-EGD 2-Stroke, Biodegradable
<b>AVIA (France)</b>	Motosynth 2T		API TC, JASO FC, ISO-L-EGD 2-Stroke
<b>Bel-Ray</b>	EXS Synthetic Superbike Motor Oil	0W-40, 5W-60, 10W-50	4-Stroke Motorcycle Engine Oil
	V-Twin Synthetic Motor Oil		4-Stroke Motorcycle Engine Oil
<b>Cargo (Sweden)</b>	Poly-Twin		2-Stroke Engine Oil
	Sweedex 2T		API TC, JASO FC, ISO L-EGD 2-Stroke Motorcycle Engine Oil
	Sweedex 2T RX		2-Stroke Motorcycle Engine Oil For Heavily Loaded Engines
	Sweedex 2T MX		2-Stroke Motorcycle Engine Oil For Mixing With Methanol
<b>Caltex Pte Ltd</b>	Revtex Fully Synthetic 2T		JASO FC 2-Stroke Motorcycle Engine Oil
<b>Castrol</b>	GPS	10W-40, 20W-50	API SG, JASO MA 4-Stroke Motorcycle Engine Oil
	Power RS R44T	5W-40, 10W-50	API SL JASO M2 4-Stroke Motorcycle Engine Oil
	Power RS TTS 2T		API TC, JASO FD 2-Stroke Motorcycle Engine Oil
	Full Synthetic Super Outboard		NMMA TC-W3 Outboard Engine Oil
	R4 Supreme Superbike	5W-40	API SG, JASO MA 4-Stroke Motorcycle Engine Oil
	Syntec Snowmobile Oil		NMMA TC-W3, API TC 2-Stroke Snowmobile Engine Oil

	<i>Name</i>	<i>SAE/ISO Viscosity Grade</i>	<i>Remarks</i>
<b>Cepsa (Spain)</b>	Moto 4T Ruta 66 Sintetico	10W-50	API SJ, JASO MA 4-Stroke Motorcycle Engine Oil
	Moto 2T 100 Sintetico		API TC+, JASO FC+, ISO-L-EGD 2-Stroke Motorcycle Engine Oil
<b>CITGO</b>	Mystic JT4 Syn 4-Cycle All Terrain	0W-40, 10W-40	API SL, NMMA FC-W, JASO MA
	Mystic JT4 Syn 4-Cycle Outboard Marine		API SL, NMMA FC-W, JASO MA
	Mystic JT4 Syn 2-Cycle Personal Watercraft		API TC, JASO FC & FD
	Mystic JT4 Syn 2-Cycle Snowmobile		API TC, JASO FC & FD
	Mystic JT4 Syn 4-Cycle Snowmobile	0W-40	API SL, NMMA FC-W, JASO MA
<b>Cognis</b>	Proeco 2818		TC-W3™/API-TC/API-TC+ 2-Cycle Engine Oil
<b>ELF</b>	Sport 4 Campione	10W-60	JASO MA 4-Stroke Motorcycle Engine Oil
	HTX 802	10W-50	Racing 4-Stroke Motorcycle Engine Oil
	HTX 976	SAE 50	Competition 2-Stroke Motorcycle Engine Oil
	Sport 2 Competition	SAE 40	Ester Based Competition 2-Stroke Motorcycle Engine Oil
	Prosylvania 2T SYN NA		API TC, JASO FC, ISO-L-EGD 2-Stroke Air Cooled
	Moto 2 XT Tech	SAE 30	API TC, JASO FC, ISO-L-EGD 2-Stroke Oil, Ester
	Moto 4 XT Tech	10W-50	API SG, JASO MA 4-Stroke Oil, PAO
	Moto 4 Pro Tech	5W-40	API SL, JASO MA1 4-Stroke Oil
	ATV 4 Power	10W-50	API SG, JASO MA 4-Stroke Oil, PAO
	<i>Also see Total below</i>		
<b>ERG Petroli (Italy)</b>	Motoplus 4T		SAE 15W-50 4-Stroke Motorcycle Engine Oil
<b>Eurol (Netherlands)</b>	TTX Bio 2T		NMMA TC-W3, API TC Outboard Engine Oil
	Formax 2T Fullsyn		API TC, JASO FC, ISO-L-EGD 2-Stroke Gasoline Engine Oil
<b>Fuchs</b>	Planto Twin S		API TC 2-Stroke Gasoline Engine Oil
<b>Fuchs Silkolene</b>	Scoot Sport 4	5W-40	Ester 4-Stroke Engine Oil for Scooters & Mopeds API SG
	Pro Scoot		Ester API TC, JASO FC, ISO-L-EGD 2-Stroke Engine Oil
	Pro 4 Plus	5W-40, 10W-50	API SG, JASO MA Ester 4-Stroke Engine Oil for Superbikes
	Pro 4	10W-40, 15W-50	API SG, JASO MA Ester 4-Stroke Motorcycle Engine Oil
	Pro 2		API TC Ester Racing 2-Stroke Engine Oil
	Comp 2 Plus		API TC, JASO FC, ISO-L-EGD Ester 2-Stroke Injector Engine Oil
	Pro 2 SX		Ester 2-Stroke Off-Road Racing Engine Oil
	Comp 2 Plus SX		Ester 2-Stroke Low Smoke Competition Off-Road Motorcycle Engine Oil
<b>Galp (Portugal)</b>	Moto Action S 4T		SAE 10W-40 API SJ, JASO MA, 4-Stroke Gasoline Engine Oil
	Moto Action S 2T		API TC, JASO FB, 2-Stroke Gasoline Engine Oil
<b>Genol/BayWa (Germany)</b>	2-Takt-Syn		API TC, JASO FC, ISO-L-EGD 2-Stroke Gasoline Engine Oil
<b>Gulf Oil LP (India)</b>	Syntrac 2T		API TC, JASO FD, ISO-L-EGD 2-Stroke Gasoline Engine Oil
	Gulf Green 2T		Ester Biodegradable 2-Stroke Gasoline Engine Oil
	Gulf Green 3000		NMMA TC-W3 Biodegradable 2-Stroke Gasoline Engine Oil
<b>Igol (France)</b>	Pro Surf Jet TC-W3		NMMA TC-W3, API TD
	Pro Surf Hors Bord TC-W3		NMMA TC-W3, API TD
<b>Irving Oil</b>	Syn Trax		API TC, JASO FC/FD, ISO EGC/EGD 2-Stroke Engine Oil
<b>Ipone (France)</b>	Snow Racing 4 T		4-Stroke Snowmobile Engine Oil
<b>Klotz</b>	50:1 TechniPlate® TC-W3		NMMA TC-W3, JASO FD, ISO-EGD, API TC 2-Stroke Engine Oil
	Snowmobile TechniPlate® TC-W3		NMMA TC-W3, API TC, JASO FD Snowmobile 2-Stroke Engine Oil
	SkiCraft TechniPlate® TC-W3		NMMA TC-W3, JASO FD, ISO-EGD, API TC Skicraft Engine Oil
<b>Krafft (Spain)</b>	Synthetic Two-Stroke Oil		API TC+, JASO FC+, 2-Stroke Gasoline Engine Oil
<b>Kuwait Petroleum</b>	MOTO SBK Racing 10W-50		API SL, JASO MA 4-Stroke Gasoline Engine Oil
	MOTO RS Extreme		API TC 2-Stroke Motorcycle Engine Oil
	City Bike Ultra		API TC, JASO FD 2-Stroke Gasoline Engine Oil, Low Smoke
<b>Leprinxol (Germany)</b>	2T Synth		API TC, JASO FC, ISO-L-EGD 2-Stroke Gasoline Engine Oil



	<i>Name</i>	<i>SAE/ISO Viscosity Grade</i>	<i>Remarks</i>
<b>LubeCorp</b>	Premium Synthetic Two Cycle		NMMA TC-W3, API TC, JASO Outboard 2-Stroke Engine Oil
<b>LubriMatic (Plews )</b>	100% Synthetic TC-W3 Motor Oil		NMMA TC-W3 Outboard 2-Stroke Engine Oil
<b>MAINLUBE (Australia)</b>	131 Oil		HD Low Ash Two Stroke Racing Oil
	175 Oil	5W-30, 5W-40, 10W-40, 10W-60, 15W-50, 20W-50	API SJ/CF, ACEA A3/B3 4-Stroke Motorbike Gasoline Engine Oil
<b>Maxima</b>	Formula K2		Ester 2-Stroke Racing Oil
	BIO 2T		Ester Injector Oil for 2-Stroke Engine Oil
	Maxum 4 Ultra	0W-10, 0W-30, 5W-40, 5W-50	4-Stroke Racing Engine Oil
	Maxum 4 Extra	10W-40, 15W-50	Ester 4-Stroke Motorcycle Engine Oil
<b>Mercury Marine</b>	MerCruiser Full Synthetic	20W-40	NMMA FC-W Catalyst Compatible 4-Cycle oil
<b>Millers Oil (UK)</b>	ZF S	10W-50	API SG, ACEA A3 JASO MA 4-Stroke Motorcycle Engine
<b>Mobil</b>	Mobil 1 MX2T Motorcycle Oil		API TC, JASO FC, ISO E-GD 2-Stroke Motorcycle Engine Oil
	Mobil 1 MX4T Motorcycle Oil	SAE 10W-40	API SJ/CF, JASO MA, 4-Stroke Motorcycle Engine Oil
	Mobil 1 Racing 4T	10W-40	API SJ/CF, API TC, JASO MA 4-Stroke Motorcycle Engine Oil
	Mobil 1V-Twin	20W-50	API SJ/CF, API TC, JASO MA 4-Stroke Motorcycle Engine Oil
<b>Motorex (Switzerland)</b>	Power Synt 4T	10W-60	API SG, JASO MA 4-Stroke Motorcycle Gasoline Engine Oil
	Cross Power 4T	10W-50	API SG, JASO MA, ACEA A3 4-Stroke Motorcycle Gasoline Engine Oil
	ATV/Quad Racing 4T	10W-50	API SG, JASO MA 4-Stroke Motorcycle Gasoline Engine Oil
	KTM Racing 4T	20W-60	For KTM Race Engines
	Racing Power 2T		API TC, JASO FC, ISO-L-EGD 2-Stroke Gasoline Engine Oil
	Cross Power 2T		API TC, JASO FC, ISO-L-EGD 2-Stroke Gasoline Engine Oil
	Scooter Forza 2T		API TC, JASO FC, ISO-L-EGD 2-Stroke Gasoline Engine Oil
	Ocean FS 4T	15W-50	API SL, ACEA A3/B4 Outboard 4-Cycle Engine Oil
<b>Motul</b>	710 Synthetic 2-Stroke Motor Oil		API TC, JASO FC-FD, ISO-L-EGD 2-Stroke Gasoline Engine Oil
	600 2T Injector & Premix Oil		API TC, JASO FC, ISO-L-EGD 2-Stroke Motorcycle Engine Oil
	800 2T 100% Synthetic Premix		Ester 2-Stroke Racing Engine Oil
	E-TECH 100 4-Stroke Oil		Ester/PAO 4-Stroke Motorcycle Gasoline Engine Oil
<b>Nils (Italy)</b>	4 Race	10W-50	API SG, JASO MA 4-Stroke Motorcycle Gasoline Engine Oil
	Duo Synt S		API TC, JASO FD, ISO-L-EGD 2-Stroke Motorcycle Gasoline Engine Oil
<b>Nippon Oil</b>	Racing Spec Pro-2T		Racing 2-Stroke Motorcycle Engine Oil
<b>Nycos Americas</b>	NL 210		NMMA TC-W3, API TC+ Outboard 2-Stroke Engine Oil, biodegradable
	NYCOLUBE 218 M		JASO FC, ISO EGD 2-Stroke Engine Oil. Husqvarna 266, Complex Ester
	NYCOLUBE 248		JASO FC, ISO EGD 2-Stroke Engine Oil, Complex Ester
	NYCOLUBE 221		JASO FC, ISO EGD 2-Stroke Engine Oil, Diester
	NYCOLUBE 210		NMMA TC-W3, API TC, Husqvarna 266, Solvent Free, Complex Ester
	NYCOLUBE 190		For Racing Motorcycles, Ester
	NYCOLUBE 233		Go-Cart Racing Oil, Ester/Castor Oil Blend
	NYCOLUBE 209		For Micromotors, Ester
<b>OMV (Austria)</b>	BIXXOL motor bike 2T-S		API TC++, JASO FC, ISO-L-EGD, TISI, Piaggio 2-Stroke
	AVANTI motor bike 2T-S		API TC++, JASO FC, ISO-L-EGD, TISI, Piaggio 2-Stroke
	BIXXOL motor bike 4T-S	10W- 50	API SG, JASO MA
	AVANTI motor bike 2T-S	10W- 50	API SG, JASO MA
<b>Orlen (Poland)</b>	Platinum Moto 2T		API TC, JASO FC, ISO-L-EGD 2-Stroke Gasoline Engine Oil
	Platinum Boat Bio TC-W3		NMMA TC-W3, API TC+ Outboard 2-Cycle Engine Oil,
<b>Pakelo (Italy)</b>	0441 Krypton MBK	10W-40, 10W-50, 10W-60, 5W-50, 15W-50	4-Stroke Motorcycle Gasoline Engine Oil
	0200 Small 2T-TS		2-Stroke Motorcycle Gasoline Engine Oil
<b>Panolin (Switzerland)</b>	Aquasynth		Self Mixing 2-Stroke Marine Engine Oil
<b>Pennzoil</b>	Marine Full Synthetic Outboard 2-Cycle Oil		NMMA TC-W3 Outboard 2-Cycle Engine Oil, biodegradable
<b>Petrobras (Brazil)</b>	Lubrax Nautica Syntonia		NMMA TC-W3 Outboard 2-Cycle Engine Oil

	<i>Name</i>	<i>SAE/ISO Viscosity Grade</i>	<i>Remarks</i>
<b>Petronas (Malaysia)</b>	Sprinta 2T 5000		API TC, JASO FC, ISO-L-EGD 2-Stroke Low Smoke, PIB/Ester
	Sprinta 4T 5000	10W-40	API SJ, JASO MA 4-Stroke Motorcycle Engine Oil, PAO
<b>Petronomics</b>	73131		API TC, JASO 2-Stroke Enduro Engine Oil
<b>Phillips</b>	Synjex Synthetic 2-Cycle TC-W3 Oil		NMMA TC-W3, API TC Outboard 2-Cycle Engine Oil
<b>PTT(Thailand)</b>	Challenger Synthetic 2T		API TC 2-Stroke Motorcycle Oil
<b>Quaker State</b>	Personal Watercraft Snowmobile		API TC, JASO FC, ISO-L-EGD 2-Stroke Low Ash 2-Cycle
<b>Ravenol (Germany)</b>	Watercraft Fullsynth 2-Takt TC-W3		NMMA TC-W3
	Outboardoel 2T Fullsynth TC-W3		NMMA TC-W3
	Scooter Fullsynth 2-Taktoel		2-Stroke Engine Oil
	Vollsynth. Zweitaktoel VSZ		
	Snowmobile Fullsynth 2-Takt		2-Stroke Engine Oil
	Scooter 4-T		2-Stroke Scootere Engine Oil
	Snowmobile 4T Fullsynth		4-Cycle Snowmobile Engine Oil
	Watercraft 4T FC-W		4-Cycle Outboard Engine Oil
	Motorbike 4-T Ester	5W-30, 5W-40, 10W-30, 10W-40, 10W-50, 15W-50, 10W-60	Ester 4-Cycle Motorcycle Engine Oil
	Moto Scooter 2T		JASO FC Smokeless, 2-Stroke
	Moto Sintetico 2T		JASO FB, API TC+ 2-Stroke
	Moto Scooter 4T	5W40	JASO MA, API SJ 4-Stroke
	Moto Competicion 2T		JASO FC, API TC+, 2-Stroke
<b>Repsol (Spain)</b>	RP Moto Racing 2T		
	RP Moto Racing 4T	10W-40	API SJ, JASO MA/MA2
	RP Moto Racing 4T	10W-50	API SJ, JASO MA2
	RP Moto Supersport 4T	10W-30	API SM, JASO MA2
	RP Moto Racing HMEOC 4T	10W-30	API SJ, JASO MA
	RP Moto Sintetico 4T	10W-40	API SJ, JASO MA2
	RP Moto ATV 4T	10W-40	API SJ, JASO MA/MA2
	RP Moto Off Road 4T	10W-40	API SJ, JASO MA2
	RP Moto Transmisiones	10W-40	JASO MA2
	Hightec Synth RS-2T		API TC, JASO FC, ISO-L-EGD 2-Stroke Engine Oil
	2-Cycle TCW III Racing Oil		NMMA TC-W3 Outboard 2-Cycle Engine Oil
	Hermes Extreme 4-T	10W-50	API SG, JASO MA 4-Cycle Motorcycle Engine Oil
	Hermes Extreme 2-T		JASO FC, ISO EGD 2-Stroke Engine Oil
<b>Sentinel</b>	SLC 2-Stroke		2-Stroke Engine Oil
	Advance Racing X2		JASO FC, API TC+, 2-Stroke
<b>Shell Australia</b>	Advance VSX2		API TC, JASO FD, ISO-L-EGD 2-Stroke Motorcycle Engine Oil
	Advance Ultra 4	10W-40	API SG, JASO MA 4-Cycle Motorcycle Engine Oil
<b>Sierra Intl.</b>	Sierra Synthetic Marine Eng. Oil	10W-30	NMMA FC-W Outboard 4-Cycle Engine Oil
	Sierra Full Synthetic Marine Eng. Oil	30	NMMA FC-W Outboard 4-Cycle Engine Oil
	Fully Synthetic Two-Cycle Engine Oil		ISO-L-EGD 2-Stroke Motorcycle Engine Oil
<b>Sinopec (China)</b>	Fully Synthetic Four-Cycle Motorcycle Oil		API SJ, JASO MA 4-Cycle Motorcycle Engine Oil
	Max-4	0W-40	4-Stroke ATV and Snowmobile Engine Oil
<b>Sinto (Canada)</b>	Heavy Duty Platinum	20W-50	Motorcycle Engine Oil
<b>Spectro (Intercontinental)</b>	Platinum Synthetic	0W-40, 5W-40, 10W-50, 15W-50	API SL, JASO MA Motorcycle Engine Oil
	SX Synthetic Racing Engine Oil	15W-50	API SL, JASO FC 2-Cycle Motorcycle Engine Oil
	SX-4 Racing Engine Oil	10W-40, 15W-50	4-Cycle Motorcycle Engine Oil
	RacingWay MC	15W-40	API SG, SH, JASO MA Motorcycle Engine Oil
<b>Statoil (Norway)</b>	RacingWay 2T		API TC, JASO FC, ISO EGD, 2-Stroke Motorcycle Engine Oil

	<i>Name</i>	<i>SAE/ISO Viscosity Grade</i>	<i>Remarks</i>
<b>Statoil (cont)</b>	RacingWay 2T GO-CART		Go-Cart 2-Stroke Engine Oil
	2-TWay Revolution Snowmobile		JASO FD, ISO EGD, Rotax 253 Snowmobile Engine Oil
<b>Sun (Belgium)</b>	AquaWay Bio		NMMA TC-W3, API TC, TC+, HVA 266 2-Stroke Engine Oil
	ECO2		NMMA TC-W3 Outboard 2-Cycle Engine Oil
	2T SYNSNOW		API TC+, JASO FC, Global ISO-L-EGD, TSC-4 Snowmobile Engine Oil
<b>Synergyn</b>	Synergyn 2-Cycle Air Cooled Engine Oil		API TC, FC 2-Stroke Engine Oil
	Liquid Cooled 2-Cycle Engine Oil		NMMA TC-W3 Outboard 2-Cycle Engine Oil
<b>TEXASTEIA</b>	Full Synthetic Two Cycle (50:1) Injector Oil TCW3		NMMA TC-W3 Outboard 2-Cycle Engine Oil
<b>Total</b>	Neptuna 2T Bio-Jet		NMMA TC-W3 Outboard 2-Cycle Engine Oil, Biodegradable
	Neptuna 2T Racing		NMMA TC-W3 Outboard 2-Cycle Engine Oil
	Neptuna Speeder	10W-30	NMMA FC-W 4-Stroke Gasoline Engine Oil
	Prosylva 2T SYN NA		API TC, ISO-L-EGD, JASO FC 2-Stroke Engine Oil
	Racing 2T		API TC, ISO-L-EGD, JASO FD 2-Stroke Engine Oil
	Racing 4T	10W-50	API SJ, JASO MA2 4-Stroke Gasoline Engine Oil
	Sport 2T		API TC, ISO-L-EGD, JASO FD 2-Stroke Engine Oil
	Scooter 2T		API TC, ISO-L-EGD, JASO FD 2-Stroke Engine Oil
<b>Torco</b>	T-4 SR 4-Stroke Synthetic Racing Oil	SAE 10W-40, 20W-50	API SG, JASO MA 4-Stroke Gasoline Racing Engine Oil
	V-Series SS		API SG, JASO MA For Harley and Custom V-Twin Engines
	SSO Synthetic Snowmobile 2-Cycle Oil		API TC, JASO FC, ISO-L-EGD 2-2-Stroke Snowmobile Engine Oil
<b>Tribospec</b>	Synspec 2 Cycle		NMMA TC-W3, API TC, TD, JASO FC 2-Cycle Engine Oil
<b>Unil (Germany)</b>	2 T Super Synth		API TC, JASO FC, ISO L-EG D 2-Stroke Oil
<b>Valvoline</b>	SynPower Outboard 2T		NMMA TC-W3 Outboard 2-Cycle Engine Oil
<b>Wladoil (Italy)</b>	Synthetic 2T		JASO FC 2-Stroke Motorcycle Engine Oil
	Scooter 4T		API SJ 4-Stroke Scooter Engine Oil
	Top 4 Racing		4-Stroke Racing Motorcycle Engine Oil
	Acqua Jet		NMMA TC-W3, Yamaha CE 50S Outboard 2-Cycle Engine Oil
<b>Wolf Oil (Belgium)</b>	T Stroke Synflow Bio		NMMA TC-W3, API TC+ Outboard 2-Cycle Engine Oil, Biodegradable
<b>Wunsch Ole (Germany)</b>	4T-Racing Syntec	SAE 15W-50 & 20W-50	API SH, SJ; ACEA A3; Jaso MA 4-Cycle Racing Oil
<b>Yamaha</b>	Yamalube 2 Stroke Outboard Motor Oil		NMMA TC-W3 Outboard 2-Cycle Engine Oil, Biodegradable
	Yamalube 15W-50 Full Synthetic With Ester		JASO MA 4-Cycle Motorcycle Engine Oil
<b>Zeller+Gmelin (Germany)</b>	DIVINOL Synthetic 2T		API TC, JASO FC 2-Stroke Oil
	DIVINOL Zweitaktol S		API TC, JASO FC, GLOBAL GD 2-Stroke

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# Lubrication Technologies, Inc.

## Synthetic Lubricant Cross Reference Chart Series

### Other Synthetic Automotive Oils, Industrial Engine Oils, Agriculture Oils (Products Not Included in Previous Synthetic Automotive Lubricant Charts)

	<i>Name</i>	<i>SAE/ISO Viscosity Grade</i>	<i>Remarks</i>
<b>Aluchem (Italy)</b>	ALUSYNT Tractor	10W-30	Universal Tractor Transmission Oil, JDM-J27, MF M1139, Cat TO-2/TO-4
	ALUSYNT Uni	15W-40	Super Tractor Oil Universal, API CH/CF-2, JDM-J27, MF M1139, Cat TO-4
<b>American Lubricating Co.</b>	Hydro-Fluid		for Hydrostatic Drive Commercial Mowers
<b>American Synthol</b>	Synthetic NGENO	SAE (20W) 40	Natural Gas Engine Oil, Low Ash
<b>AMSOIL</b>	CTG, CTJ, CTL	SAE 10W, 30, 50	Cat TO-4 Powershift Transmission Fluid
	Synthetic Tractor Hydraulic/Transmission Oil (ATH) (SAE 5W-30)		Tractor Hydraulic Transmission Fluid
	Synthetic Natural Gas Engine Oil (ANG) (20W)-40		Low Ash (<0.4%) Stationary Natural Gas Engine Oil
	Synthetic Mobile Natural Gas Engine Oil (ANGM) 15W-40		Transit Natural Gas Engine Oil, Cummins CES 20074
<b>Anderol</b>	1001	SAE 40	Ester Low/Med Ash Natural Gas Engine Oil
	1385	SAE 30	Ester Low/Med Ash Natural Gas Engine Oil
	1040-L	ISO 100, SAE 40	PAO Low (0.4%) Ash Natural Gas Engine Oil
	1040-M	ISO 100, SAE 40	PAO Med (0.8%) Ash Natural Gas Engine Oil
	1340-L	ISO 100, SAE 40	PAO Low (0.5%) Ash Natural (Sour) Gas Engine Oil
	1340-M	ISO 100, SAE 40	PAO Med (0.8%) Ash Natural (Sour) Gas Engine Oil
	1640-L	ISO 100, SAE 40	PAO Low (0.5%) Ash Natural (Bio) Gas Engine Oil
	1640-M	ISO 100, SAE 40	PAO Med/High (1%) Ash Natural (Bio) Gas Engine Oil
	1611	SAE 30	Ester Med/High Ash Natural Gas Engine Oil
	1613	SAE 40	Ester Med/High Ash Natural Gas Engine Oil
<b>Aztec (UK)</b>	Synthetic CVT		Continuous Variable Transmission, Fiat, Ford, Volvo
<b>BP</b>	Enersyn TCS 68		PAO Marine Diesel Engine Turbocharger Lube
<b>Case IH</b>	Hy-Tran Ultra SSL		Universal Transmission/Hydraulic Fluid
<b>Castrol</b>	SAF-XO	ISO 100	Final Drive Lubricant
	MTX Synthetic		Motorcycle Transmission Oil
<b>Caterpillar</b>	Cat FDAO SYN	ISO 320	Final Drive Lubricant
<b>Chevron</b>	Synthetic All-Weather THF		Universal Tractor Hydraulic Transmission Fluid
	Delp Trans Fluid ESI	SAE 40	Transmission Fluid
<b>Cognis</b>	Emgard 4200	SAE 30	Manual (Synchronized) Transmission Lubricant
<b>Elf</b>	Elf Tractorelf ST 3	SAE 10W-30	Universal Tractor Hydraulic Transmission Fluid
	Elf TractorRenault 400	SAE 10W-40	STOU Fluid For Renault Tractors
	Also see Total		
<b>Fuchs</b>	PLANTOHYD S	ISO 10, 15, 22, 32, 46, 68	Ester Based HEES Industrial & Mobile Equipment Hydraulic Oil
<b>Habot (South Africa)</b>	H-TOU	SAE 15W-40	Universal Tractor Hydraulic Transmission Fluid
<b>Irving Oil</b>	Synthetic Racing Oil		Racing Oil
<b>Kuwait Petroleum</b>	Q8 T 5000	SAE 10W-40	Super Tractor Oil Universal , (STOU)
<b>Lubricants USA</b>	see Total		

	<i>Name</i>	<i>SAE/ISO Viscosity Grade</i>	<i>Remarks</i>
<b>Maxima</b>	Hypoid Synthetic Gear Oil		Motorcycle Gear Oil
<b>Mobil</b>	Pegasus 1		Low /Med Ash Natural Gas Engine Oil 0.48% Sulfated Ash
	Mobilgard 1		API CF, CF-2, SAE 40 Distillate Fueled Diesel Engine Oil
	Mobiltrans SHC Arctic	SAE 10W-30	Cat TO-4, Allison C-4 Transmission Fluid
	Mobiltrans AST	ISO 100	Cat TO-4, Allison C-4 Transmission Fluid
	Delvac Synthetic Transmission Fluid Arctic 10W-30		Cat TO-4, Allison C-4 Transmission Fluid
	Mobilgear SHC 6800		Railroad Traction Motor Gear Lubricant
	Jet II, Jet 254, Jet 291		Aviation Gas Turbine Oils
<b>Nippon Oil</b>	ENEOS CVT Fluid		For Vehicles With Metal Belt Type CVTs
<b>Orlen (Poland)</b>	Platinum Gas Synthetic SL	SAE 5W-40	API SL, For LPG Engines
<b>Panolin (Switzerland)</b>	Panolin HLP Synth	ISO 15 & 46	Ester Based Industrial & Mobile Equipment Hydraulic Oil
<b>Pentosin (Germany)</b>	Pentosin FFL-2		Double Clutch Transmission Fluid for VW
	Pentosin FFL-3		Double Clutch Transmission Fluid for ZF
	Pentosin FFL-4		Double Clutch Transmission Fluid for GETRAG
<b>Petro-Canada</b>	Duratron Synthetic	10 cSt at 100C	Universal Tractor Hydraulic Transmission Fluid
	Supertest TO-4 Synthetic All Season SAE 5W-30		Cat TO-4 Transmission Fluid
<b>Petronomics</b>	51410	SAE 30	PAO Ashless Natural Gas Engine Oil
	51413	SAE 40	PAO Ashless Natural Gas Engine Oil
	51416	SAE 40	PAO Low Ash Natural Gas Engine Oil
	51419	SAE 40	PAO Low Ash Natural Gas Engine Oil
	55390		PAO, Racing Gear Oil
	56926	SAE 15W-40	PAO Natural Gas Engine Oil
<b>Primrose Oil</b>	711-G Syn-O-Gen NG	SAE 5W-40	PAO Low Ash (0.45%) Natural Gas Engine Oil
<b>Redline</b>	Motorcycle Gear Oil	80W	Motorcycle Transmission Oil
<b>Royal Purple</b>	Aegis 2-C 30	SAE 30	Ashless 2-Cycle Natural Gas Engine Oil
	Aegis 2-C 40	SAE 40	Ashless 2-Cycle Natural Gas Engine Oil
	Syn IV EMD 40	SAE 40	Zinc-Free EMD Diesel Engine Oil
	Syn IV EMD 20W-40	SAE 20W-40	Zinc-Free EMD Diesel Engine Oil
	Max-Tuff		Reassembly Lube
<b>Sentinel</b>	S NGE0	SAE 30, 40, 15W-40	Natural Gas Engine Oil
<b>SLFi</b>	BG&GBHF Fluids	ISO 22, 32, 46, 68	Biodegradeable Hydraulic Fluid for Automotive Wet Clutches
<b>Spectro (Intercontinental)</b>	Platinum SX400		Shock and Fork Fluid
<b>Summit (Kluber NA)</b>	GEO SH-30	SAE 30	PAO, Ashless Natural Gas Engine Oil
	GEO SH-40	SAE 40	PAO, Ashless Natural Gas Engine Oil
	GEO SH-130	SAE 30	PAO, Low Ash (0.45%) Natural Gas Engine Oil
	GEO SH-140	SAE 40	PAO, Low Ash (0.45%) Natural Gas Engine Oil
<b>TEXASTEALUBES</b>	Long Drain Synthetic NGE0	SAE 40	Low Ash (<0.5%) Natural Gas Engine Oil
<b>Thermal Lube (Canada)</b>	XL-7380 Synthetic Universal Tractor Lube TDH 5W-20, 10W-30		STOU Fluid
	XL-7385 Synthetic Hydraulic Transmission Fluid		Hydraulic Transmission Fluid
<b>Total</b>	Nateria Catco Synthetic NA	SAE 40	PAO NGE0
	Nateria X 405	SAE 40	Low Ash NGE0, Waukesha APG 220 GL
	Preslia SE Jet		MIL-23699, POE Aviation or Gas Turbine
	Multagri Max	SAE 10W-40	STOU Fluid
<b>Valvoline</b>	NSL Synthetic Racing Oils		Non-Street Synthetic Racing Oils
<b>Wunsch Ole (Germany)</b>	Multifunktionsol STOU Synth		API CD/CE, CF-4, SG, GL-4, GL-5 STOU Fluid
	Panolin HLP Synth	ISO 15 & 46	Ester Based Industrial & Mobile Equipment Hydraulic Oil

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# Lubrication Technologies, Inc.

## Synthetic Lubricant Cross Reference Chart Series

### Fully Synthetic Greases

	<i>Product Name</i>	<i>NLGI Grade</i>	<i>Thickener/Oil*</i>	<i>Base Oil ISO Viscosity.</i>	<i>EP</i>	<i>Fillers</i>	<i>Remarks</i>
<b>Acculube</b>	Sumtech SG-220	2	Lithium Complex/PAO	220	EP		
	Sumtech SG-460	1.5	Lithium Complex/PAO	460	EP		
	ALPG-120	0	Lithium/PAG	129	EP		
<b>Addinol (Germany)</b>	Hightemp XFT 2	2					
	Hightemp XFT 2 EP	2			EP		
	Multiplex XMK 2	2	Lithium-Calcium/PAO				
	Supertemp XHT 2 EP	2	Lithium Complex/		EP		
	ADDIFLON PFPE Premium XH 1, 2		PFPE				
	ADDISIL Extemp 2	2	Lithium/Silicon				
	ADDIFLON OXS 400	3	/Silicon				
	Longlife Grease HS 2	2	Lithium Complex/				
<b>Aluchem (Italy)</b>	Longlife Grease LC 2	2	Lithium-Calcium Complex/				
	Aluflos AV 2	2	PTFE/PEPE				H1 food grade
	Aluflos G2	2					PFPE, H1 food grade
	Alugrease Super	00, 1, 2	Lithium Complex/Ester				
	Alugrease VG/2	2	Non-soap/				
	Alugrease AS	0, 1, 2	Aluminum Complex/				H1 food grade
	Alugrease AS-AD	0, 1, 2	Aluminum Complex/PAO				H1 food grade
	Alugrease AS-HT	1, 2	Non-soap/				H1 food grade
	Alugrease BA-FG	0, 1, 2	Aluminum Complex/PAO				H1 food grade
	Alugrease G93A	0, 1, 2	Aluminum Complex/				H1 food grade
	Unionlub PTFE	2	Lithium Complex/PAO				PTFE
<b>American Agip</b>	Advantage EP	2	Polyurea/		EP	moly	
	Industrial EP 2000	2	Polyurea/		EP		
	Synthix	0	Polyurea/				
<b>Amsoil</b>	Superplex		/PAO				
	GWR	1.5	Lithium Complex/		EP		
	GHB, GHD	1, 2	Lithium Complex/PAO	150	EP	moly	
	GLA, GLB, GLC	0, 1, 2	Lithium Complex/PAO	150	EP		
	GRG	2	Lithium Complex/		EP		
	GSF	00	Lithium Complex/PAO	460	No		
	GVC	2	Lithium Complex/PAO	320	EP		
	GXC	2	Aluminum Complex/				H1 food grade
	GPOR1	1	Calcium Sulfonate		EP	5% moly	
	GPOR2	2	Calcium Sulfonate		EP	5% moly	

	<i>Product Name</i>	<i>NLGI Grade</i>	<i>Thickener/Oil*</i>	<i>ISO Viscosity.</i>	<i>EP</i>	<i>Fillers</i>	<i>Remarks</i>
<b>Anderol</b>	700	2	Silica/POE	68/100			
	752-1	1	Lithium Complex/PAO	32	EP		
	752-2	2	Lithium Complex/PAO	32	EP		
	757	2	Lithium/Diester/Poly Meth.	22/32			
	780	2	Silica/PAO	32			
	783-00 & 0	00 & 0	Aluminum Complex/PAO	150			food grade
	783-1 & 2	1 & 2	Aluminum Complex/PAO	220			food grade
	786	2	Lithium/Diester		EP		
	793	2	Lithium/Diester	10			
	794	1	Lithium/Diester	10			
	795	1	Lithium/Diester	10			
	Ultramarine Blue FG (see Royco)	1	Calcium/PAO	32			
	<b>Aral (Germany)</b>	Aralub SPU 1/2	1-1/2	Polycarbamide/	400		
Aralub SPT 2		2	PTFE/	220			
Aralub SPH 2		2	PTFE/	400			
Aralub SKL 2		2	Lithium-Calcium/	32			Low Temp, High Speed
Aralub BAB EP 0		0	Lithium/	220	EP		Biodegradable
Aralub BAB EP 2		2	Lithium/	100	EP		Biodegradable
Aralub BAB SLC-SP 2		2	Lithium-Calcium/	100	EP		Biodegradable
<b>Aztec (UK)</b>	Synthetic Lithium Complex Grease	2	Lithium Complex/PAO	30 cSt@100C	EP		
<b>C &amp; C Oil</b>	Crescent SynLC	2	/PAO				
<b>Cam2</b>	Ultra 580	0, 1, 2					
<b>Case IH</b>	SSL Synthetic Grease				EP		
<b>Castrol</b>	Pyroplex Protection ES	1, 2	Aluminum Complex	320	EP		
	Syntec MP Grease	2	Lithium Complex			Polyethylene/	
	SHL 00	00	Lithium Complex/PAO	460	EP		
	Molub-Alloy 240ET, 542ET	1.5	Inorganic/	460/680	No		
	Molub-Alloy 896ET	1.5	Inorganic/	680	EP		
	Molub-Alloy 1000	1	Inorganic/	460/680			
	Molub-Alloy 2115	2	Non-soap/	320/460	No		
	Optimol Intertox Medium	2		320/460			
	Optimol Intertox Heavy	2		150			
	<b>Caterpillar</b>	Cat Desert Gold	2	Calcium Sulfonate Complex/	400	EP	5% moly
	Cat Arctic Platinum	0	Calcium Sulfonate Complex/	360	EP	5% moly	
<b>Centurion</b>	Opti-Lube Synthetic Grease	2	Calcium Sulfonate Complex/PAO		EP	moly	
<b>Chevron</b>	Delo Synthetic Grease SF	0	Polyurea/PAO	150			
	RPM Arctic Grease	1	Polyurea/	22			
	Ultiplex Synthetic Grease EP	1.5	Lithium Complex/PAO	320	EP		
	Ultiplex HV Synthetic Grease	1.5	Lithium Complex/	780	EP		
<b>Chukyo Kasei Kogyo (Japan)</b>	Bearlex Super SG-9	2	Lithium/				low temp
	Bearlex SH 1	1	Lithium/				low temp
	Bearlex SH 2	2	Lithium/				low temp
<b>Citgo</b>	OverDrive HubGard	00	Lithium Complex/	460	EP		
<b>CLC</b>	Lubrimax HT-1	1	/PAO				
	Lubrimax SL-2	2	/PAO				
	Lubrimax ML-2	2	/PAO		EP	moly	

	<i>Product Name</i>	<i>NLGI Grade</i>	<i>Thickener/Oil*</i>	<i>ISO Viscosity.</i>	<i>EP</i>	<i>Fillers</i>	<i>Remarks</i>	
<b>Cognis Conoco</b>	Emgard 00	00	Lithium Complex/	460	EP			
	Pure FM	2	Silica Gel/PAO	68				
	Calcium M Grease	1	Calc. Sulfonate Complex/	183	EP			
	High Performance Synthetic	1	Lithium/	22	EP			
	Syncon EP Heavy Duty	1, 2	Lithium Complex/PAO	235	EP			
	Syncon Extra Long Life Grease 00		Lithium Complex/PAO	420	EP			
	Syncon HP Synthetic Grease	1	Lithium 12-OH/PAO	22				
	Triton ELL	00	Lithium Complex/PAO	460	EP		Conoco, 76 Lubr, Phillips family of greases	
	Triton HP	1	Lithium 12-OH/PAO	22/32	EP		Conoco, 76 Lubr, Phillips family of greases	
	Triton 100	2	Lithium Complex/PAO	100	EP		Conoco, 76 Lubr, Phillips family of greases	
	Triton 220	2	Lithium Complex/PAO	220	EP		Conoco, 76 Lubr, Phillips family of greases	
	Triton 460	1.5	Lithium Complex/PAO	460	EP		Conoco, 76 Lubr, Phillips family of greases	
	Triton XD5	0, 1, 2	Calcium Sulfonate/PAO	32	EP		00 contains 5% moly, also family of greases	
	<b>CPI</b>	GRS-453	2	/PAO		EP		
GRS-421		2	/POE		EP	moly		
GRS-450			/PAO					
GRS-460			/PAO					
<b>Critical Technologies</b>	Syntek HP	2	/PAO/POE					
	Syntek EP	2	/PAO/POE					
<b>Crompton (Chemtura)</b>	G-2087, 2115		Calcium Sulfonate/					
	G-2183						H-1 food grade	
<b>Dow Corning</b>	BG-20 High Perf. Syn Grease	2	Lithium Complex/Polyol Ester	32/46				
	Molykote 33 Light	1	Lithium/Silicone	68				
	Molykote 33 Medium	2	Lithium/Silicone	68				
	Molykote 44 Light	1-2	Lithium/Silicone	68/100				
	Molykote 44 Medium	2	Lithium/Silicone	68/100				
	Molykote 55		Lithium/Silicone/Ester					
	Molykote G-2001	1	Lithium Calcium/PAO					
	Molykote G-4500	2	Aluminum Complex/PAO	100	EP	PTFE		
	Molykote G-4501	1	Aluminum Complex/PAO	100		PTFE		
	Molykote G-4700	2	Lithium Complex/PAO	150	EP	PTFE, moly		
	Molykote HP-300	2				PFPE		
	Molykote PG-30L		/PAO					
	Molykote SK-623	1	Lithium/PAO					
	Molykote YM-103		/PAO		EP	solids		
	<b>DuPont, E.I. Dylon</b>	Krytox 283AC		Lithium/Ester				
		GR-650 LB-373W						ashless
	<b>Exxon</b>	Unirex RS 300, 460	1.5	Lithium Complex/	320, 460	EP		no longer marketed
Unirex S2		2	Lithium Complex/POE	150				
Unirex SHP 100, 220		2	Lithium Complex/PAO	100, 220	No (100) EP (200)		no longer marketed	
Unirex SHP PM		1.5	Lithium Complex/PAO	460	EP		no longer marketed	
Unirex SHP 1500, 00		1, 00	Lithium Complex/PAO	1500, 460	EP		no longer marketed	
Beacon 325		2	Lithium/Diester					
<b>Flowserve Fuchs</b>	Pure Syn. Grease DS-460-F	1.5	/PAO	32				
	Chemplex 940		/PAO					
	HT-250		/PAO					
	HT-250MS		/PAO		EP	moly		



	<i>Product Name</i>	<i>NLGI Grade</i>	<i>Thickener/Oil*</i>	<i>ISO Viscosity.</i>	<i>EP</i>	<i>Fillers</i>	<i>Remarks</i>
<b>G-C Lubricants</b>	Primus HiTemp RL		/PAO				
<b>Greenco</b>	R-2000	2	/Syn Ester				
<b>Gulf Oil Ltd (India)</b>	Gulfcrown Synth LC	00, 2	Lithium Complex/				
<b>Henkel Locktite</b>	Viperlube High Performance		/PAO				
<b>Huskey</b>	HTL-500	00,0,1,2	Non-Soap/PAO	46		PTFE	NSF/USDA H-1
	HTL-500 Ultra Low Grease	2	Non-Soap/PAO	15		PTFE	NSF/USDA H-1
	HTS-2 Moly Grease	00,0,1,2	Non-Soap/POE	100		moly	
	PF-27	2, 3	PTFE/PFPE	460		PTFE	NSF/USDA H-1
	PF-29		PTFE/PFPE	320		PTFE, moly	
	PF-30		PTFE/PFPE	150		PTFE	NSF/USDA H-1
	221-R	3	Non-Soap/ Silicone				
	HVS-100	3	Non-Soap/Silicone				NSF/USDA H-1
	350 S		Non-Soap/Silicone				NSF/USDA H-1
	LVI-50	00,0,1,2	Non-Soap/Ester			PTFE	NSF/USDA H-1
	Lube "O" Seal	00,0,1,2	Non-Soap/ Ester			PTFE	NSF/USDA H-1
	HYDROLUBE	00,0,1,2	Non-Soap/ Ester				NSF/USDA H-1
<b>Irving Oil</b>	Lubex Syn						
<b>JAX</b>	Millennium Grease	2	/PAO		EP		
	Magna-Plate 1200	2	/POE				
<b>Jesco Resources</b>	Realfilm Synthetic MP/EP						
<b>Jet-Lube</b>	Temp-Guard	1.5	Non-soap/Ester	68	EP	graphite	
<b>Kluber (Germany)</b>	Asonic GHY 72	2.5	Polyurea/Ester	68			
	Kluberquiet BQ 72-72	2	Polyurea/Ester	70			
	Barrierta L 55/2	2	Lithium/Diester				
	Isoflex Topas NCA 5051	0/00	Calcium/PAO	32			
	Isoflex Topas NB 52		Barium/PAO				
	Isoflex Super LDS18		Lithium/Diester				
	Kluberplex BEM 34-132	2	/PAO		EP		
	Klubersynth GE 46-1200	00	Lithium/PAG	100			
	Petamo GY 193	1.5	Polyurea/Ester	160			
<b>Kyodo Yushi (Japan)</b>	Maltemp SRL		Lithium/Ester				
<b>Loctite</b>	ViperLube High Perf. Syn Gr.	2	Calcium Sulfonate Complex/PAO		EP		NSF/USDA H-1
<b>Lubcon Turmo</b>	Turmotemp Super 2EP	2			EP		
<b>Lubemaster Certified</b>	CCL 2000		/POE				
<b>Lu Best/Momar</b>	Titan 999		/PAO				
	Titan 888		/PAO				
	Titan 777		/PAO		EP	moly	
<b>Lubricants USA</b>	see Total						
<b>Lubr. Specialties</b>	Glacier		/PAO				
<b>Lubrication Engrs.</b>	9901 Almasol Syntep						
<b>Lubriplate (Fiske)</b>	SynXtreme HD2	2	Calcium Sulfonate/				
	Syn 1600 series		Lithium Complex/PAO				
	SynXtreme FG-2	2	Calcium Sulfonate/				food grade
<b>LubriMatic</b>	Syn Brake Caliper & Wheel Brg	2	Lithium Complex/				
<b>Magna (Hong Kong)</b>	Omega 22	2	Lithium Complex		EP		PTFE
	Omega 26 ThermaSyn	2	PTFE/PFPE		EP		food grade
	Omega 27 ThermaSyn	00	PTFE/PFPE		EP		food grade chain lube
	Omega 38 Crystal Clear						food grade
	Omega 607		/Ester				Biodegradable

	<i>Product Name</i>	<i>NLGI Grade</i>	<i>Thickener/Oil*</i>	<i>ISO Viscosity.</i>	<i>EP</i>	<i>Fillers</i>	<i>Remarks</i>	
<b>MAINLUBE (Australia)</b>	310 Grease	00, 1, 2, 4	Non fluorocarbon				non-melting up to 2000C service	
	315 Grease	3, 4	Colloidal Carbon/ Polyurea/					
	335 Grease	2	Lithium Complex/ /PAO		EP			
<b>Marly Metalcote</b>	Synthetic Grease XHT		Lithium Complex/ /PAO					
	MC 2000S MC 2000SM2		/PAO		EP	moly		
<b>Metatron (Mexico)</b>	Metatron 42		Silica Gel/Polyethylene Glycol					
<b>Mobil</b>	Mobil 1 Synthetic Grease	2	Lithium Complex/ Bentone/PAO	220	EP			
	Mobilgrease 28							
	Mobilgrease EAL 101, 102	2, 2	Lithium 12-OH/POE	100	EP			
	Mobilith SHC 100	2	Lithium Complex/PAO	100	EP			
	Mobilith SHC 220	2	Lithium Complex/PAO	220	EP			
	Mobilith SHC 221	1	Lithium Complex/PAO	220	EP			
	Mobilith SHC 460	1.5	Lithium Complex/PAO	460	EP			
	Mobilith SHC 007	00	Lithium Complex/PAO	460	EP			
	Mobilith SHC 1500	1	Lithium Complex/PAO	1500	EP			
	Mobilith SHC PM 220	1.5	Lithium Complex/PAO	220	EP			
	Mobilith SHC PM 460	1.5	Lithium Complex/PAO	460	EP			
	Mobilith SHC RR 221	1	Lithium Complex/PAO	220	EP			
	Mobiltemp SHC 32	1	Bentone/PAO	32	EP			
	Mobiltemp SHC 100	1	Bentone/PAO	100	EP			
	Mobiltemp SHC 100 Special	1	Bentone/PAO	100	EP	moly		
	Mobiltemp SHC 460 Special	1	Bentone/PAO	460	EP	moly		
	SHC Polyrex 462	2	Polyurea	46		H-1		
	<b>Morris (UK)</b>	K65MS	2	Inorganic/PAG	128		10% moly	
		K84	000	Organic clay/PAG	130	EP		
	<b>Neo-Synthetic</b>	HTG 600	2		100		moly	
	<b>Nye</b>	Z-12 Grease	2	Lithium Complex/ Lithium Complex/PAO		EP		
		Rheolube 374A	2	Lithium Complex/PAO				
Rheolube 374B		2	Lithium Complex/PAO					
Rheolube 374C		4	Lithium Complex/PAO					
Rheotemp 500		1.5	Sodium/Ester					
Rheolube 706E			Lithium/POE					
Rheolube 716R		2	Lithium/POE					
Rheolube 2000			Sodium/Diester					
NyoGel 758G		3	Lithium/Ester					
NyoGel 781D			PTFE/PFPE					
NCGP			/PAO					
Synthetic 181B								
Many other NYE synthetic greases								
Superfilm Synplex EP								
<b>Oils Unltd.</b>								
<b>OKS (India)</b>		424	1.5	Organic Thickener/PAO	410	EP		
	480	2		340				
<b>Olma (Slovenia)</b>	Olmathyn E2	2					bearing grease	
<b>Orelube</b>	HT-450SC		/Ester					
	HT-600		/POE					
	HT-600M		/POE		EP	moly		
	Trident 88		/PAO					

	<i>Product Name</i>	<i>NLGI</i>	<i>Thickener/Oil</i>	<i>Oil (ISO) Viscosity.</i>	<i>EP</i>	<i>Fillers</i>	<i>Remarks</i>	
<b>Pennzoil</b>	Geosyn Grease	0	Lithium 12-OH/PAO	32	EP			
	Long-Life Syn Hub Plus 00	00	Polyurea	460	EP			
	Pennlith SHD EP 220	2	Lithium Complex/PAO	220	EP			
	Pennlith SHD EP 460	1.5	Lithium Complex/PAO	460	EP			
	Pennlith SHD EP 1500	1	Lithium Complex/PAO	1500	EP			
	#2 Polyglycol Grease	2	Silica Gel/PAG	220				
	Synthetic Red Grease 2	2	Lithium Complex/PAO	220	EP			
<b>Perkins</b>	Perlube SYN-2	2						
<b>Permatex</b>	Super Lube	2				teflon		
<b>Petro-Canada</b>	PRECISION Synthetic EP-1	1	Lithium Complex/PAO	100	EP		Replaces Precision Gold	
	PRECISION Synthetic Moly	1	Lithium Complex/PAO	100	EP	3% moly	Replaces Precision Gold Moly	
	PRECISION Synthetic Heavy	1.5	Lithium Complex/PAO	460	EP		Replaces Precision Synthetic Heavy	
	PRECISION Synthetic Heavy EP 00	00	Lithium Complex/PAO	460	EP		Replaces Precision Gold Heavy EP 00	
	Thermex	2	Silica Gel/PAG	220				
	Vultrex MPG EP	1, 2	Aluminum Complex/ PAO	320/460	EP			
	Vultrex MPG Synthetic Arctic	0	Aluminum Complex/ PAO	150	EP			
	Vultrex OGL Syn All Season	0/00	Aluminum Complex/ PAO	320	EP			
	Vultrex OGL Synthetic Arctic	00	Aluminum Complex/ PAO	68	EP			
	Vultrex OGL Synthetic 2200	0	Aluminum Complex/ PAO	2200	EP			
	Purity FG Synthetic FM		Cal. Sulphonate Complex/ PAO	46				
	<b>Petronas</b>	Gris Syn HT	2	Inorganic Gel/	SAE 40			
		Gris Syn FG-1	1	Aluminum Complex/	100			food grade
Gris Syn FG-2		2	Aluminum Complex/	100			food grade	
<b>Petronomics</b>	52180	2				moly		
	52268	2	Polyurea/		EP			
	52270	2				moly		
	52294	1	/Fluorosilicone					
	53530		Lithium Complex/			moly		
	57070		Calcium Sulfonate/					
	57076		Calcium Sulfonate/					
	57450						solvent resistant	
	57700						food grade	
	57726		Perfluoropolyether					
	57770		Polyurea/					
	58390		Lithium Complex/					
	58510		Calcium Sulfonate/					
58520		Calcium Sulfonate/						
<b>Phillips</b>	Petron Plus 00800				EP	moly		
<b>Phillips</b>	Syncon EP Heavy Duty	1, 2	Lithium Complex/PAO	235	EP			
	Syncon Extra Long Life Grease 00	00	Lithium Complex/PAO	420	EP			
	Syncon HP Synthetic Grease	1	Lithium 12-OH/PAO	22				
	Pure FM	2	Silica Gel/PAO	68				
	Triton ELL	00	Lithium Complex/PAO	460	EP		Conoco, 76 Lubr, Phillips family of greases	
	Triton HP	1	Lithium 12-OH/PAO	22/32	EP		Conoco, 76 Lubr, Phillips family of greases	
	Triton 100	2	Lithium Complex/PAO	100	EP		Conoco, 76 Lubr, Phillips family of greases	
	Triton 220	2	Lithium Complex/PAO	220	EP		Conoco, 76 Lubr, Phillips family of greases	
	Triton 460	1.5	Lithium Complex/PAO	460	EP		Conoco, 76 Lubr, Phillips family of greases	
	Triton XD5	0, 1, 2	Calcium Sulfonate/PAO	32	EP		00 contains 5% moly, also family of greases	
	Philube Syndustrial	1.5	Lithium					

	<i>Product Name</i>	<i>NLGI</i>	<i>Thickener/Oil</i>	<i>Oil (ISO) Viscosity.</i>	<i>EP</i>	<i>Fillers</i>	<i>Remarks</i>
<b>Primrose</b>	777 Syn-O-Gen Synthetic	2	/PAO				
<b>PureLube</b>	SYN-Greaze	2	/PAO	32/46	EP		
<b>Quaker State</b>	Synchron Ultra Premium EP	2	Lithium Complex	15 cSt at 100C	EP		
<b>Red Line</b>	Synthetic CV-2 Grease	2			EP		contains "red moly"
<b>Reliance (India)</b>	Dowsil 7		/Silicone				heat sink compound/paste
	Dowsil 17		/Silicone				soft, buttery, for low load, low torque
	Dowsil 19		/Silicone				dielectric grease
	Dowsil 21		Non-soap/Silicone				multipurpose grease
	Dowsil 84		Lithium/Silicone				high temperature grease
	Dowsil 211		Non-soap/Silicone				high vacuum grease
<b>Roadranger</b>	Roadranger Grease S-00	00	Lithium Complex/	280	EP		truck & trailer wheel ends
<b>Royal Lubricants (Anderol)</b>	Royco 13D		Lithium/Diester				
	Royco 21		Clay/Diester				
	Royco 22CF	2	Inorganic/PAO	32			
	Royco 22 MS	2	Inorganic/PAO	32			
	Royco 27	2	Lithium/Diester				
	Royco 32	6+	Lithium/Diester				
	Royco 36		Lithium/Diester				
	Royco 37		Lithium/Diester				
	Royco 43	2	Lithium/Diester/PAO				
	Royco 46	0	Lithium/Diester				
	Royco 64	2	Lithium/Diester				
	Royal On Guard LC 32	2	Lithium Complex/PAO	32	EP		
	Royal On Guard LC 460	1-1/2	Lithium Complex/PAO	460	EP		
<b>Royal Manufacturing</b>	Synplex Synthetic Grease	1,2	Lithium Complex/	220			
<b>Royal Purple</b>	Ultra Performance	0,1,2,3	Aluminum Complex/PAO	150	EP		
<b>Saunders Ent.</b>	Magnalube-G		/PAO				
<b>Schaeffer</b>	197 Moly Pure Synthetic Grease	0, 1, 2	Bentone/PAO	68	EP		moly
	271 Syn Food Grade Grease H-1	0, 1, 2	Bentone/PAO				H-1
	272 Syn Food Grade H-1 No Tack 2		Bentone/PAO	460			H-1
<b>Sentinel</b>	SL-123R	0, 1, 2, 3	/PAO				Multi-Purpose
	SL-WPG	0, 1, 2, 3	/PAO				Water Proof
	SL-M2G		/PAO		EP		moly
	SLM	0, 1, 2, 3					moly
	SL-OG	0, 1, 2, 3					Open Gear Compound
	SL-WR	0, 1, 2, 3					Water Proof, H1
	DSF-3000	1-1/2					Extreme High Temperature
	SL-VSG						Valve Silicone Grease
	SL-PTFE	2	PTFE/		EP		
	SL-GRAPH	2			EP		Graphite
	SL-HRPM	2			EP		
	SL-Inerta Plus FTG						
	SG HT						
	SL-C	1			EP		Low Temperature Cryogenic
	SL-NT-AA1	2			EP		H-1
	SL-NT-C	1-1/2			EP		H-1
	SL-NT-OGG						
	SL-NT-HT	2			EP		H-1
	SL-NT-HIG						

	<i>Product Name</i>	<i>NLGI</i>	<i>Thickener/Oil</i>	<i>Oil (ISO) Viscosity.</i>	<i>EP</i>	<i>Fillers</i>	<i>Remarks</i>	
<b>Setral (Germany)</b>	SYN-setral-PU 2	2	Polyurea/PAO/Ester	100	EP			
	SYN-setral-PU 220	2	Polyurea/PAO/Ester	220	EP			
	SYN-setral-PU 460	2	Polyurea/PAO/Ester	460	EP			
	SYN-setral-HSP/N	2-3	Lithium Complex/PAO/Ester	32	EP			
	SYN-setral-INT/250 A series	00, 0, 1, 2	PTFE/PFPE	460	EP			
	SYN-setral-INT/250 S series	00, 0, 1, 2	PTFE/PFPE	460	EP			
	SYN-setral-INT/250 FD series	00, 0, 1, 2	PTFE/PFPE	460	EP	H-1		
	SYN-setral-AL/C-FD series	00, 0, 1, 2	Aluminum Complex/SHC	260	EP	H-1		
	SYN-setral-43 B/N	2	Lithium/SHC	32				
	SYN-setral-53 B	0, 3	Inorganic/SHC			H-1		
	SYN-setral-LI	1, 2	Lithium/SHC	32				
	SYN-setralPG 814	1-2	Lithium Complex/PAG	380	EP			
	SYN-setral-1141	1, 2	Inorganic/Silicone	4000				
	SYN-setral-641	3	Inorganic/Silicone	200		H-1		
	SYN-setral-642	1	Inorganic/Silicone	400		H-1		
	SYN-setral-929/FD	3	PTFE/Silicone	750	EP			
	SYN-setral-L 50	2	PTFE/Silicone	150	EP			
	SYN-setral-LI/C 2	2	Lithium Complex/Silicone	250				
	<b>Shell</b>	AeroShell Grease 7	2	Microgel/Diester	3.1 cSt@100C	EP		
		AeroShell Grease 17	2	Microgel/Diester	3.1 cSt@100C	EP	5% moly	
AeroShell Grease 15			Teflon/Silicone					
AeroShell Grease 22		2	Microgel/PAO	5.8 cSt@100C	EP			
AeroShell Grease 33		2	Lithium Complex/PAO/Ester					
Albida HLS		2	Lithium Complex/PAO	460				
Albida MPS		1.5	Lithium Complex/	460	EP			
Albida SLC 220		2	Lithium Complex/PAO	220	EP			
Albida SLC 460		1	Lithium Complex/PAO	460	EP			
Albida SDS		1	Lithium Complex/PAO	1350	EP			
Cassida EPS 00, 1, 2		00, 1 & 2	Aluminum Complex/	220	EP		food grade	
Cassida HTS		2	Bentonite Clay/	400			food grade	
Cassida LTS		1	Aluminum Complex/	20			food grade	
Cassida RLS		00	Aluminum Complex/	100			food grade	
Cassida RLS 00		00	Aluminum Complex/	100			food grade	
Cassida RLS 0, 1, 2		0, 1, 2	Aluminum Complex/	150			food grade	
Cassida VTS		3	PTFE/Silicone	1000				
Retinax TL 00		00	Lithium Complex/	460	EP			
Stamina Grease RLS 2		2	Polyurea/	100				
Stamina HDS		1.5	Polyurea/PAO	460	EP			
<b>Shell Canada</b>	Advanced Snow Ultra	1		100	EP	contains moly		
	Silicolube G40M		Lithium/Silicone					
<b>Shinetsu</b>	Dyno-Tech 1.5 EP Grease	1.5	Lithium Complex/PAO	150/220	EP			
	Dyno-Tech All Season Moly EP	1	Calcium Sulfonate Complex/	150/220	EP	3% moly		
<b>SLFi</b>	Arctic Clear 55	1	Silica Gel/		EP			
	BG&GFGG EP2	2			EP		USDA H-1	
	Camel	2	Silica Gel/		EP		USDA 21CFR178.3570	
	Cougar Wire Rope Grease	2			EP			
	Hawk #2	2	Aluminum Complex/		EP			
	Hawk #2 Food Grade EP2				EP		USDA H-1	
	Polar Bear	0-00					USDA H-1, low temp	

	<i>Product Name</i>	<i>NLGI</i>	<i>Thickener/Oil</i>	<i>Oil (ISO) Viscosity.</i>	<i>EP</i>	<i>Fillers</i>	<i>Remarks</i>
<b>SLFi (cont)</b>	Shark #2	2			EP		biodegradable
	Ultron-Blue	1-1/2		6,500 SUS@100F			
<b>South Coast</b>	GT-990		/POE				
	Desco 244		/Silicone		EP		
<b>Southeast O&amp;G</b>	Alithicon B-51		/PAO				
	Alithicon M-888		/PAO		EP	moly	
	Alithicon 9992-TL		/PAO				
<b>Summit (Kluber NA)</b>	SumTech PG-120	00/000	Lithium/PAG	120	EP		
	SumTech SG 220	2	Lithium Complex/PAO	220			
	SumTech SG 320	1.5	Lithium Complex/PAO	460			
<b>Synlube</b>	Universal Synthetic Grease	2	Lithium Complex/	220	EP	moly, graphite, PTFE	
	Synlube Red		/PAO				
	Lube-4-Life #2	2	/PAO/POE/Phos Ester		EP	moly	
<b>Syn-Tech</b>	NS-9797-G	1	Lithium/	460/680	EP	PTFE	
	NS-10895-G	2	Organic/	46		PTFE	
<b>Texaco</b>	Polystar Synthetic 1002, 4602	2	Polyurea/	100, 460	No		no longer marketed
	Starfak 00	00	Lithium Complex/PAO	460			no longer marketed
	Starfak 2201, 4601	1	Lithium Complex/PAO	220, 460			no longer marketed
	Starfak 2202, 4602	2	Lithium Complex/PAO	220, 460			no longer marketed
	Starfak Low Temp EP	1.5	Lithium Complex/Diester	15	EP		no longer marketed
	Starfak PM	1.5	Lithium Complex/	460			no longer marketed
<b>Thermal-Lube</b>	XL-0075 100% Syn Low Temp 1, 2		Silica/	22	EP		
	XL-0715 100% Syn Thermal Hi-Temp 2		Silica/		EP		thixotropic
	XL-0720 100% Syn PAG w/Moly		/PAG		EP	moly	
	XL-0721 100% Syn PAG w/Graphite		/PAG		EP	graphite	
	XL-0775 100% Syn Hi-Temp PAO 2		Silica/PAO		EP	graphite	
	XL-0845 Polyon		/PAO		EP		
	XL-1845 Polyon		/PAO		EP	moly	
	XL-0854 100% Syn Tire & Pad 0, 1, 2, 3, 4		Inorganic/	220	EP	graphite	
<b>Total</b>	Synpro SHC	00	Lithium Complex/PAO				
	Synpro SHC	1.5	Lithium Complex/PAO	460			
	Synpro SHC	2	Lithium Complex/PAO	150			
	Multivis XLT	2	Lithium/Calcium/PAO				
	Multivis Complex SHD 00	00	Lithium Complex/PAO				
	Multivis Complex SHD 32	2	Lithium Complex/PAO	32			
	Multivis Complex SHD 220	2	Lithium Complex/PAO	220			
	Multivis Complex SHD 460	0.5	Lithium Complex/PAO	460			
	Marson SY	00	/PAG				
	Marson SY	2	/PAG				
	Statermic NR	2	Fluorocarbon	375			
	Statermic XHT	2	Fluorocarbon	150			
	Nevastane SFG	1, 2	Calcium Sulfonate/PAO				
	Altis SH2	2	Polyurea	80			
	111 Syntac Lube	0	Semi-fluid/Ester				aerosol

	<i>Product Name</i>	<i>NLGI</i>	<i>Thickener/Oil</i>	<i>Oil (ISO) Viscosity.</i>	<i>EP</i>	<i>Fillers</i>	<i>Remarks</i>	
<b>Tribology</b>	Black Gold	2	Inorganic/PAO	150	EP	graphite		
	<b>Tech-Lube</b>	Red Gold	2	Inorganic/PAO	460/680	EP		
		T-707	2	Inorganic/	68	EP		
		T-707G	2	Inorganic/	68	EP	graphite	
		Tri Moly	2	Aluminum Complex/PAO	220/320	EP	moly	
		Tri Moly LT	2	Aluminum Complex/	32	EP		
		Tri 123	2	Inorganic/PAO	220	EP		
<b>Ultrachem</b>	Tri 1-2-3 HT	2	Inorganic/	460	EP			
	Omnilube 2	2	Aluminum Complex/PAO		EP			
	Vischem 352	1	Lithium Stearate/	12				
	Vischem 362	2	Cabosil/diester	32/46				
	Vischem 501	1	Non-melt/POE					
	Vischem 502	2	Non-melt/POE					
	Vischem 507	2	Bentone/POE	46/68				
<b>Valvoline</b>	Vischem 4076	2	Bentone/Diester	32/46				
	Omnilube FGM1, FGM2	1, 2	Calcium Sulfonate/PAO				H-1 Food Grade	
	High Performance Syn Grease	2	Lithium Complex/	6 cSt @ 100C	EP			
<b>Whitmore</b>	SynPower Synthetic Grease	2	Lithium Complex/	6 cSt @ 100C	EP	moly		
	Decathalon AC 500 EP 1	1	Aluminum Complex/	68	EP			
	Decathalon AC 500 EP 2	2	Aluminum Complex/	68	EP			
	Decathalon AC 500 M EP 1	1	Aluminum Complex/	68	EP	moly		
	Decathalon AC 500 M EP2	2	Aluminum Complex/	68	EP	moly		
	Decathalon LC 220	2	Lithium Complex/PAO		EP			
	Dura-Film 0	0	Calcium Sulfonate//PAO	46	EP			
	Dura-Film 1	1	Calcium Sulfonate//PAO	46	EP			
	Dura-Film 2	2	Calcium Sulfonate//PAO	46	EP			
	Dura-Film 3M EP 0	0	Calcium Sulfonate//PAO	46	EP	3% moly		
	Dura-Film 5M EP 0	0	Calcium Sulfonate//PAO	46	EP	5% moly		
	Dura-Film 3M EP 1	1	Calcium Sulfonate//PAO	46	EP	3% moly		
	Dura-Film 5M EP 1	1	Calcium Sulfonate//PAO	46	EP	5% moly		
Dura-Film 3M EP 2	2	Calcium Sulfonate//PAO	46	EP	3% moly			
Dura-Film 5M EP 2	2	Calcium Sulfonate//PAO	46	EP	5% moly			
<b>Wladoil (Italy)</b>	BlueGrease							
	Super Grease RS							
<b>Wunsch Ole (Ger.)</b>	Syntetic G	0	Lithium/	150				
<b>Xtrac (UK)</b>	XG1	1						
<b>Yale Selco (India)</b>	Selco SG 360-1, 2	1, 2	Lithium Complex/PAO	46		PTFE		
	Selco SG 360-00	00	Lithium Complex/PAO	46				
	Selco SG 370	1.5	Non-soap/PAO		EP			
	Selco SG 350	2	Non-soap/PAO			1.5% solids		
	Selco SG 450	2	Lithium/		EP	3% moly		
	Selco SG 460		Non-soap/		EP	moly		
	Selco SG 500	2	Non-soap/			PTFE		
	Selco SG 390		Lithium Complex/				low speed	
	Selco SG 410	2	Barium Complex/				high speed	
	Selco SG 440	2	Lithium/PAG					
	Selco SG 900 Light	1	Lithium Complex/Silicone		EP			
	Selco SG 900 Medium	2	Lithium Complex/Silicone		EP			
	Selco SG 900 Heavy	3	Lithium Complex/Silicone		EP			

	<i>Product Name</i>	<i>NLGI</i>	<i>Thickener/Oil</i>	<i>Oil (ISO) Viscosity.</i>	<i>EP</i>	<i>Fillers</i>	<i>Remarks</i>
<b>Zeller+Gmelin</b>	DIVINOL Fett CE2	2	Calcium/Ester				
<b>(Germany)</b>	DIVINOL Fett E2	2	Lithium/Ester				
	DIVINOL Fett E00	00	Lithium/Ester		EP		
<b>76 Lubricants</b>	Syncon EP Heavy Duty	1, 2	Lithium Complex/PAO	235	EP		
	Syncon Extra Long Life Grease 00	00	Lithium Complex/PAO	420	EP		
	Syncon HP Synthetic Grease	1	Lithium 12-OH/PAO	22			
	Pure FM	2	Silica Gel/PAO	68			
	Triton ELL	00	Lithium Complex/PAO	460	EP		Conoco, 76 Lubr, Phillips family of greases
	Triton HP	1	Lithium 12-OH/PAO	22/32	EP		Conoco, 76 Lubr, Phillips family of greases
	Triton 100	2	Lithium Complex/PAO	100	EP		Conoco, 76 Lubr, Phillips family of greases
	Triton 220	2	Lithium Complex/PAO	220	EP		Conoco, 76 Lubr, Phillips family of greases
	Triton 460	1.5	Lithium Complex/PAO	460	EP		Conoco, 76 Lubr, Phillips family of greases
	Triton XD5	0, 1, 2	Calcium Sulfonate/PAO	32	EP		00 contains 5% moly, also family of greases
	76 SPM Grease	1.5	Calcium Sulfonate/PAO	320	EP		

Where no type of oil is listed, it is synthetic, just unknown as to which type synthetic.



# Lubrication Technologies, Inc. Synthetic Lubricant Cross Reference Chart Series

## Synthetic Lubricant Base Stocks



Base Stock	Nominal Viscosity at 100C, cSt (actual viscosity in parenthesis below the product name/number designation)													
	2	3	4	5	6	8	10	12	14	40	100	150	300	1,000
<b>PAO</b>														
SpectraSyn	2, 2B, 2C (1.7), (1.8), (2.0)		4 (4.1)	5 (5.1)	6 (5.8)	8 (8.0)	10 (10.0)			40 (39.0)	100 (100)			
SpectraSyn Ultra												150 (150)	300 (300)	1000 (1000)
SpectraSyn Elite												150 (156)		
SpectraSyn Plus			4 (3.9)		6 (5.9)									
<b>Ester</b>														
Esterex		A32, A34, A41 (2.8), (3.2), (3.6)		A51 (5.4)				TM101 (9.8)	TM111 (11.9)					
		P35 (3.5)		P61 (5.4)		P81 (8.3)								
			NP343 (4.3)	NP451 (5.0)										
<b>Alkylated Naphthalenes</b>														
Synsstic				5 (4.7)				12 (12.4)						



<i>Base Stock</i>	10	15	22	32	<i>Nominal Viscosity at 40C, cSt</i>										
					46	68	100	150	220	320	460	680	1000	2000	17000
<b>PAG (Water Insoluble)</b>															
UCON (TM) LB-	65			165	250	285	385, 525, 625	1145	1715						
<b>PAG (Water Soluble)</b>															
UCON (TM) 50-	HB-55	HB-100		HB-170	HB-260	HB-400	HB-660				HB-2000	HB-3520	HB-5100		
UCON (TM) 75-						H-450				H-1400				H-9500	H-90000
UCON (TM) 60-						H-340	H-760	H-1100	H-1600	H-2300			H-5300		
<i>Base Stock</i>					<i>Nominal Viscosity at 100C, cSt</i>										
	2	4	5	6	7	8	10	12	40	60	80	100	150		
SYNALOX (TM)					40-D150	40-D220	40-D300						40-D700		
<i>Base Stock</i>					<i>Nominal Viscosity at 40C, cSt</i>										
			32	46	68	100	150	220	320	460					
SYNALOX (TM)					40-D50	40-D100									



<i>Base Stock</i>	10	15	22	32	<i>Nominal Viscosity at 40C, cSt</i>										
					46	68	100	150	220	320		460			
<b>Diesters</b>															
Emery	2958 (10.3)	2970, 2960 (13.7), (17.5)	2971 (26.7)	2961 (33.5)											
<i>Base Stock</i>					<i>Nominal Viscosity at 40C, cSt</i>										
		68	100	150	460	2000									
<b>Dimer Esters</b>															
Emery		2900 (83)		2905 (150)	2908, 2902 (430), (500)	2873 (2030)									
<i>Base Stock</i>					<i>Nominal Viscosity at 40C, cSt</i>										
	10	15		22					32	46	68	100	150	220	
<b>Polyol Esters</b>															
Emery	2917 (8.4)	2930, 2932 (15.3), (18.1)		2925, 2934, 2935, 2965, 2939, 2931, 2995, 2929 (19.8), (21.2), (23.1), (24.3), (25.4), (25.6), (25.7), (26.5)	2918 (32.2)									2921 (249)	
<i>Base Stock</i>					<i>Nominal Viscosity at 40C, cSt</i>										
	22	32	46	68	100	150	460								
<b>Polyol Esters</b>															
ProEco	2965 (24.3)	2969 (37.1)	2964 (47.5)	2898, 2951 (65.6), (82.6)											



<i>Base Stock</i>			<i>Nominal Viscosity at 100F, SUS</i>						<i>Primary Applications</i>	
	55	100	170	260	660	2000	3520	5100		
<b>PAG (Water Soluble)</b>										
PLURASAFE WS	55	100	170	260	660	2000	3520	5100	Hydraulic, Gear, Compressor	
Typical	(48)	(101)	(173)	(258)	(655)	(1992)	(3560)	(5142)		
<i>Base Stock</i>			<i>Nominal Viscosity at 100F, SUS</i>							
	65	135	165	200	285	625	1715			
<b>PAG (Water Insoluble)</b>										
PLURASAFE WI	65	135	165	200	285	625	1715		Hydraulic, Chain, Gear, Compressor	
Typical	(58)	(130)	(174)	(203)	(291)	(617)	(1718)			
<i>Base Stock</i>			<i>Nominal Viscosity at 40C, cSt</i>							
	32	46	68	100	150	220	460	680	1000	
<b>PAG (Water Soluble)</b>										
PLURASAFE WS VG	32	46	68	100	150	220	460	680	1000	
Typical	(35.1)	(47.2)	(69.4)	(102.1)	(154.1)	(230.1)	(468.9)	(700.4)	(1030)	
<i>Base Stock</i>			<i>Nominal Viscosity at 40C, cSt</i>							
	32	46	68	100	150					
<b>PAG (Water Insoluble)</b>										
PLURASAFE WI VG	32	46	68	100	150				Hydraulic, Chain, Gear, Compressor	
Typical	(33.8)	(45.8)	(69.3)	(103)	(153)					
<i>Base Stock</i>			<i>Nominal Viscosity at 40C, cSt</i>							
	32	46	68	100	150	220	460	680	1000	
<b>PAG (Water Soluble)</b>										
PLURASAFE WS D				60-100			60-460		60-1000	
Typical				(110)			(445)		(1118)	
<i>Base Stock</i>	20	32	46	<i>Nominal Viscosity at 40C, cSt</i>						
				68	100	150	220	460	680	1000
<b>PAG (Water Soluble)</b>										
PLURASAFE WS B	45-20				45-100					
Typical	(20.2)				(99.3)				Hydraulic, Gear, Compressor	
<i>Base Stock</i>			<i>Nominal Viscosity at 40C, cSt</i>							
	32	46	68	100		150	220	320	460	
<b>PAG</b>										
PLURASAFE				SRF 2, SRF 216			WS 270 CF		Chain, Gas Compressor	
Typical				(102.1), (90.3)			(272)			


**BASF (cont')**

<i>Base Stock</i>	<i>Nominal Viscosity at 40F, cSt</i>							
	460	680	1000	1500	90000	270000		
<b>PAG (Water Soluble)</b>								
PLURASAFE WT	450			1400	90000	270000	Quench, FR Hydraulic, Gas Compressor	
Typical	(486)			(1397.5)	(88749)	(268800)		
<i>Base Stock</i>	<i>Nominal Viscosity at 40C, cSt</i>							
				20000	60000			
<b>PAG</b>								
PLURACOL V				5	10		FR Hydraulic, Quench	
Typical				(18000)	(65000)			



<i>Base Stock</i>	<i>Nominal Viscosity at 100C, cSt</i>															
	1	2	3	4	5	6	7	8	10	12	14	18	20	40	50	100
<b>Monoesters</b>																
	2976 (1.1)															
	2311 (1.4)															
<b>Diesters</b>		2906 (2.7)	3110 (3.2)	2910 (3.6)	5203, 2901, 2923 (4.8), (5.4), (5.5)	2955 (6.9)	2922 (8.2)				2949 (13)					
<b>Triesters</b>									2920 (9.4)	2932 (13)	2930 (16)		2940 (20)			
<b>POEs</b>					<i>Nominal Viscosity at 100C, cSt</i>											
	2			3		4		5								
HATCOL	2957, 1507, 2962, 3330 (2.1), (2.2), (2.5), (2.6)			2915, 3336, 3337 (3.0), (3.4), (3.6)		2925, 2938, 2377 (4.0), (4.4), (4.4)		2330, 3505, 3502, 2989, 2960, 2970, 2954, 2965, 3508 (4.7), (4.7), (4.9), (4.9), (4.9), (5.0), (5.0), (5.1), (5.3),								
					<i>Nominal Viscosity at 100C, cSt</i>											
	6					7		8	9				10			11
HATCOL	3306, 3506, 3178, 3304, 2352, 2990, 3329, 3146, 3169 (5.5), (5.5), (5.6), (5.6), (5.6), (6.2), (6.2), (6.2), (6.3)					3501, 3354 (6.9), (7.1)		3504 (8.3)	3320, 5068, 1106, 3373 (8.6), (8.7), (8.8), (9.4)				5127, 3391 (9.9), (10)			3503 (11)
					<i>Nominal Viscosity at 100C, cSt</i>											
	12	14	18	19	20	21	26	36								
HATCOL	2999 (12)	2372 (14)	5150 (18)	3507 (19)	3316 (20)	3349, 2300 (21), (21)	3365 (26)	3371 (36)								

## INEOS Oligomers

Base Stock	Nominal Viscosity at 100C, cSt													
	2	4	5	6	7	8	10	12	40	100				
<b>PAO</b>														
DURASYN <sup>®</sup>	162	164		166		168	170		174	180				
USA	(1.55-2.1)	(3.8-4.1)		(5.7-6.1)		(7.7-8.0)	(9.4-10.2)		(39-41)	(98-102)				
Europe	(1.6-2.1)	(3.8-4.0)		(5.7-6.1)		(7.7-8.0)	(9.4-10.2)		(39-41)	(95-105)				
DURASYN <sup>®</sup>			125	126	127	128								
			(5)	(6)	(7)	(8)								
<b>Polybutene (PIB)</b>														
INDOPOL <sup>®</sup>	L-14	L-50	H-7	H-8	H-15	H-25	H-35	H-50	H-100	H-300	H-1500	H-1900	H-6000	H-18000
	(4.2)	(9.4)	(12.5)	(15.3)	(30.5)	(52.0)	(74)	(108)	(218)	(630)	(3050)	(4050)	(12,200)	(40,500)



Base Stock	Nominal Viscosity at 100C, cSt								Primary Application		
	2	4	6	8	10	12	14	28		40	100
<b>PAO</b>											
Synton									40	100	Gear Oil, Engine Oil, Grease
									(40)	(100)	
	32		46		68		100				
<b>Triaryl Phosphate Ester</b>											
Reolube	140		225, 225S		620B						FR Fluids, Turbine Bearing Lube
	(32)		(46), (46)		(125)						



Base Stock	Nominal Viscosity at 100C, cSt												
	2	4	5	6	7	8	9	10	12	14	28	40	100
<b>PAO</b>													
Synfluid	2	2.5	4	5	6	7	8	9				40	100
	(1.8)	(2.4)	(3.9)	(5.1)	(5.9)	(7.0)	(7.9)	(8.9)				(40)	(100)





Base Stock

2 3 4 5 *Nominal Viscosity at 100C, cSt* 6 8 10 11 12 14 19 24 40 100 150

**MONO ESTERS**

Lexolube IPP, IPO, NBS (all 3 are 2 cSt)  
T-110, HS-S B-109  
(3) (3) (4)

**DIESTER**

Lexolube 2X-114 2X-108 2X-109

**NEOPOLYOL ESTERS**

Lexolube 21-214 31-310 3N-310 4N-415 3G-310

**POE**

Lexolube POE-68HT POE-100HT POE-220HT POE-350HT

**COMPLEX ESTERS**

Lexolube CPE-70 (11) CPE-220 (27) CP-460LC (46) CPE-2200 (180)

**PYROMELLITATES**

Lexolube 4PM-114 (15)

**FOOD GRADE POE**

Lexolube FG-68 HX1 FG-100 HX1 FG-220 HX1 FG-350 HX1



Base Stock

2 4 6 8 *Nominal Viscosity at 100C, cSt* 10 12 14 28 40 100 150 300 1,000

**Alkylbenzene**

HiTEC 6949 (5.1 cSt at 100C)



**Idemitsu Chemical**

Base Stock

2 4 6 8 *Nominal Viscosity at 100C, cSt* 10 12 14 28 40 100 150 300 1,000

**PAO**

Not yet commercialized. Both low and high viscosity PAO expected to be produced.

# CRODA

<i>Base Stock</i>				<i>Nominal Viscosity at 100C, cSt</i>							
	2	3	4	6	8	10	12	14	28	40	100
<b>Diester</b>											
Priolube	3959 (2.4)		1935 (3.7)	1936 (5.3)	3972 (7.6)						
Priolube		1856, 1857 (3.3),(3.4)					3985 (12.8)				
Priolube		3963 (3.2)	3960 (4.5)					3967 (18.0)			

<i>Base Stock</i>				<i>Nominal Viscosity at 40C, cSt</i>							
	32	46	68	100	150	220	320	460	680	1000	1500
<b>PAG, Water Insoluble</b>											
Emkarox VG			96	126 (125)	146 (145)	180, 222 (180)(221)	380 (380)	462 (380)			
<b>PAG, Water Soluble</b>											
Emkarox VG					132W, 130W (131), (152)		330W (328)		681W (680)	1055W (1052)	

<i>Base Stock</i>				<i>Nominal Viscosity at 40C, cSt</i>			
	10000	20000	40000	100000	15000		
Emkarox HV		20 (19500)	45 (45000)	105 (105000)	165 (165000)		

<i>Base Stock</i>				<i>Nominal Viscosity at 100C, cSt</i>						
	2	4	6	8	10	40	50	60	80	100
<b>Complex Ester</b>										
Priolube				1849 (8.1)		2087, 2046 (35), (40)	1851 (49)		1857 (85)	3986 (2000)

<i>Base Stock</i>				<i>Nominal Viscosity at 100C, cSt</i>							
	1	2	4	6	8	10	40	50	60	80	100
<b>Mono Ester</b>											
Priolube			1406, 1414, 1451 (2), (2.3), (2.3)	1976 (5.4)							
Priolube	1502 (1.1)		1514, 1540 (1.5), (1.9)								
Prifer	6813 (1.4)										

<i>Base Stock</i>				<i>Nominal Viscosity at 40C, cSt</i>						
		32	46	68	100	150	220	320		460
<b>Tri Ester</b>										
Priolube		1941	1942 (51.9)	1943 (71.4)	1938 (96.8)		1939 (143)			3967 (306)



**CRODA (cont')**

<i>Base Stock</i>					<i>Nominal Viscosity at 40C, cSt</i>							
	10	15	22	32	46	68	100	150	220	320		
<b>Diester</b>												
Priolube	1857 (11.7)	1856 (12.5)					3985 (84)					
Priolube	3959 (7.7)	1935 (14.5)	1936 (26.3)		3972 (41.5)							
<i>Base Stock</i>					<i>Nominal Viscosity at 40C, cSt</i>							
	10	15	22	32	46			68	100	150	220	320
<b>Polyol Ester</b>												
Priolube			3970, (20),	1800, 3971, 1808 (28), (32), (35)			2089, 1973, 1427 (44), (46), (48)	1445 (67),	3999 (90),	1968 (100)	3987 (138)	
Priolube		1527 (14)										
<i>Base Stock</i>					<i>Nominal Viscosity at 40C, cSt</i>							
		32	46	68	100	150	220	320		460		
<b>Self Emulsifiable Ester</b>												
Priolube								3953, 3952 (360), (380)		3955 (420)		



<i>Base Stock</i>					<i>Nominal Viscosity at 100C, cSt</i>								
	2	4	6	8	10	12	14	28	40	100	150	300	1,000
<b>GROUP III</b>													
ETRO		4	6										



<i>Base Stock</i>					<i>Nominal Viscosity at 100C, cSt</i>								
	2	4	6	8	10	12	14	28	40	100	150	300	1,000
<b>GROUP III</b>													
UCBO		4R (4.1)	7R (7.0)										



Represented in US by



<i>Base Stock</i>	2	4	6	8	<i>Nominal Viscosity at 100C, cSt</i>								
					10	12	14	28	40	100	150	300	1,000
<b>GROUP III</b>													
Ultra-S	2	3	4	8									



<i>Base Stock</i>	2	4	6	8	<i>Nominal Viscosity at 100C, cSt</i>								
					10	12	14	28	40	100	150	300	1,000
<b>GROUP III</b>													
PURITY VHVI	2	4	6	8									
	(2.6)	(4.5)	(6.0)	(8.3)									



<i>Base Stock</i>	2	4	6	8	<i>Nominal Viscosity at 100C, cSt</i>								
					10	12	14	28	40	100	150	300	1,000
<b>GROUP III</b>													
Kixx LUBO	2	4	6	8									
	(2.1)	(4.18)	(5.89)	(7.92)									



<i>Base Stock</i>	2	4	6	8	<i>Nominal Viscosity at 100C, cSt</i>								
					10	12	14	28	40	100	150	300	1,000
<b>GROUP III</b>													
Yubase	L3, 3	4	6	8									
	(3.12)	(4.23)	(6.52)	(7.6)									
Yubase Plus (Gr III+)		(4.16)											

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## **Misc. Other**

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