SDS TOYOTA Hilux

RZN142, 144, 147, 148, 149, 154, 168, 169, 193
VZN167, 172

Jan. '03

		1RZ	2RZ-FE	3RZ-FE	5VZ-FE
cm³ or CC (cu. in.)		1998 (121.9)	2438 (148.8)	2694 (164.4)	3378 (206.1)
mm (in.) / N (kgf)		7–8 (0.28–0.31) ※295–440 (30–45)			14–17 (0.59–0.79) ※245–392 (25–40)
		10–13 (0.39–0.51) ※196–392 (20–40)			5–7 (0.20–0.28) ※196–392 (20–40)
		9–12 (0.35–0.47) ※196–343 (20–35)	6–7.5 (0.24–0.30) ※245–392 (25–40)		8.5–10 (0.33–0.39) ※245–392 (25–40)
mm (in.)	DENSO	G.C.C. W16EXR-U Others W16EX-U	K16R-U		K16TR11
	NGK	G.C.C. BPR5EY Others BP5EY	BKR5EYA		BKR5EKB11
	A	0.8 (0.031)			1.1 (0.043)
kΩ		25			26
BTDC		5° (w/ Sub-Vacuum Advance cut)	5° (DLC3 Terminals 13(TC)–4(CG) Connected)		10° (DLC1 Terminals TC–EI Connected)
mm (in.)	H	0.20–0.30 (0.008–0.012)	0.15–0.25 (0.006–0.010)		0.13–0.23 (0.006–0.009)
	C	0.25–0.35 (0.010–0.014)	0.25–0.35 (0.010–0.014)		0.27–0.37 (0.011–0.014)
rpm	H	700–800	650–750 (DLC3 Terminals 9(TACH)Connected)	Unleaded: 650–750 Leaded: 750–850 (DLC3 Terminals 9(TACH)Connected)	650–750
CO% *1	H	1.0–2.0	0–0.5	Unleaded: 0–0.5 Leaded: 1.0–2.0	0–0.5

kPa (kgf/cm², psi)		1230 (12.5, 178)	1230 (12.5, 178)	1200 (12.2, 174)
		⬆ 880 (9.0, 127)		⬆ 1000 (10.2, 145)
		⬇ 98 (1.0, 14)		⬇ 100 (1.0, 15)
kPa (kgf/cm², psi)		⬆ 29 (0.3, 4.3)		⬆ 29 (0.3, 4.3)
	3,000 rpm	245–490 (2.5–5.0, 36–71)		245–520 (2.5–5.3, 36–75)
N·m (kgf·cm, ft·lbf)	A	① 39 (400, 29) ② 90° ③ 90°		① 34 (350, 25) ② 90° ③ 90°
	B	29 (300, 21)		18 (180, 13)
	C	49 (500, 36)		40 (500, 36)

		1RZ	2RZ-FE	3RZ-FE	5VZ-FE
liter (US qts, Imp. qts)		4.0 (4.2, 3.5)	2WD except Pre Runner 4.0 (4.2, 3.5) 4WD and Pre Runner 5.3 (5.6, 4.7)		4.7 (5.0, 4.1)
		4.7 (5.0, 4.1)	2WD except Pre Runner 4.7 (5.0, 4.1) 4WD and Pre Runner 6.0 (6.3, 5.3)		5.0 (5.3, 4.4)
		API grade SJ, "Energy-Conserving" SL "Energy-Conserving" or ILSAC*2 multigrade engine oil			
liter (US qts, Imp. qts)		w/ Heater 7.8 (8.2, 6.9) w/o Heater 7.3 (7.7, 6.4)	w/ Heater 7.4 (7.8, 6.5) w/o Heater 6.9 (7.3, 6.1)	w/ Heater 7.7 (8.1, 6.8) w/o Heater 7.2 (7.6, 6.3)	7.0 (7.4, 6.2)

Printed in Japan

*1 In the 2 mode (2,500 rpm and idle) test, follow the measurement order prescribed by the applicable local regulations.
*2 ILSAC: International Lubricant Standardization and Approval Committee

TOYOTA MOTOR CORPORATION

Pub. No. SDS468E

Hilux

RZN142 – *0004888*~ RZN144 – *0043830*~ RZN147 – *0040406*~ RZN148 – *0010382*~ RZN149 – *0111366*~
RZN154 – *0004464*~ RZN168 – *0007469*~ RZN169 – *0026513*~ RZN193 – *0001519*~
VZN167 – *0001125*~ VZN172 – *0001011*~

TOYOTA QUALITY SERVICE

	RZN
A	LHD : 173 *(6.811)* RHD : 177 *(6.968)*
B	5–15 *(0.197–0.591)*
C	⇧ 25 *(0.984)*
	SAE J1703 or FMVSS No. 116 DOT3

mm *(in.)*

	4×2 (Except Pre Runner)	4×4 (Include Pre Runner)
A	LHD : 161.1 *(6.343)* RHD : 167.7 *(6.579)*	
B	1–6 *(0.04–0.24)*	
C	LHD : ⇧80 *(3.150)* RHD : ⇧85 *(3.346)*	LHD : ⇧75 *(2.953)* RHD : ⇧80 *(3.150)*
	SAE J1703 or FMVSS No. 116 DOT3	

mm *(in.)*

196 N *(20kgf, 44.1lbf)*	11–17
A	⇧ 1.0 *(0.039)*
B	⇧ 23.0 *(0.906)* / ⇧ 18.0 *(0.709)*
	⇧ 1.0 *(0.039)*
	⇩256.0 *(10.079)* / ⇩297.0 *(11.693)*

mm *(in.)*

	4×2	4×4
A	A+[5.9–17.7] *(0.6–1.8 1.3–4.0)*	A+[13–38] *(1.3–3.9 2.9–8.8)*
N *(kgf, lbf)*		
N·m *(kgf·cm, ft·lbf)*	137 *(1400, 101)*	105 *(1070, 77)*

	4×2	4×4
	1RZ 2.2 *(2.3, 1.9)* Others 2.6 *(2.7, 2.3)*	5VZ–FE 2.2 *(2.3, 1.9)* Others 2.5 *(2.6, 2.2)*
liter *(US qts, Imp. qts)*	**API GL–4 or GL–5 SAE 75W–90**	
liter *(US qts, Imp. qts)*	1.6 *(1.7, 1.4)*	2.0 *(2.1, 1.8)*
	ATF DII or DEXRON®III (DEXRON®II)	ATF Type T-IV
liter *(US qts, Imp. qts)*	—	1.1 *(1.2, 1.1)*
liter *(US qts, Imp. qts)*	**API GL–4 or GL–5 SAE 75W–90**	

	Except Pre Runner	Include Pre Runner
	G.C.C. 2.4 *(2.5, 2.1)* Except G.C.C. 3RZ (M/T) 2.0 *(2.1, 1.8)* Others 1.8 *(1.9, 1.6)*	w/ A.D.D. 1.86 *(1.97, 1.65)* w/ oA.D.D. 1.6 *(1.7, 1.4)*	2RZ-FE 3RZ-FE 2.7 *(2.9, 2.4)* 5VZ-FE B-cab and W-cab 2.2 *(2.3, 1.9)* C-cab 2.4 *(2.5, 2.1)*
—			
liter *(US qts, Imp. qts)*	**Hypoid gear oil API GL–5 With LSD use LSD oil only** **SAE90 (⇧ –18°C (0°F))** **SAE 80W or 80W –90 (⇩ –18°C (0°F))**		

	RZN
	⇩ 30 *(1.18)*

mm *(in.)*

	4×2 (Except Pre Runner)					4×4 (Include Pre Runner)		
	B–cab		W–cab		C–cab	B–cab	W–cab	C–cab
	Short	Long	DLX	SR				
A	**Please refer to the Repair Manual 5VZ-FE Pub.No.RM963E Others Pub.No.RM909E (Service Specification)**							
B								
C								
D	35° +1° −2°					RHD 32°20′ +1° −2° LHD 33° +1° −2°		
	37° +1° −2°					33°20′ +1° −2°		
	Please refer to the Repair Manual 5VZ-FE Pub.No.RM963E Others Pub.No.RM909E (Service Specification)							

mm *(in.)*

185R14C–8PR	220 *(2.2, 32)* 200 *(2.0, 29)* *5	450 *(4.5, 65)*
195R14C–8PR	220 *(2.2, 32)*	450 *(4.5, 65)* 220 *(2.2, 32)* *4
195/80R15 103/101LLT	180 *(1.8, 26)*	375 *(3.75, 54)* 180 *(1.8, 26)* *6
195R15C 103/101R	180 *(1.8, 26)*	375 *(3.75, 54)*
205/70R15C 8PR	200 *(2.0, 29)*	400 *(4.0, 58)* *1 200 *(2.0, 29)* *2
205R16 Reinforced	170 *(1.7, 25)*	240 *(2.4, 35)* 170 *(1.7, 25)* *4,*6
205R16C–6PR	170 *(1.7, 25)*	300 *(3.0, 44)* 220 *(2.2, 32)* *4
255/70R15C 112R	190 *(1.9, 28)*	240 *(2.4, 35)*
255/70R15 112LLT	190 *(1.9, 28)*	240 *(2.4, 35)* *3 190 *(1.9, 28)* *4
Front 6.00–14–6PRLT Rear 6.50–14–8PRLT	200 *(2.0, 29)* *1 180 *(1.8, 26)* *2	425 *(4.25, 62)* *1 240 *(2.4, 35)* *2
7.00–16–8PRLT	240 *(2.4, 35)*	425 *(4.25, 62)*

kPa *(kgf/cm² or bar, psi)*

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*1 General (Loaded) *2 General (Unloaded) *3 Australia (Loaded)
*4 Australia (Unloaded) *5 RZN142 models only *6 Chiri