SDS TOYOTA Hilux Diesel

LN 141, 145, 146, 147, 150, 152, 165, 166, 167, 170, 171, 172, 190, 191
KZN 165

Aug. '99

	2L	2L–T	3L	1KZ–TE	5L
cm³ or CC *(cu. in.)*	2446 *(149.3)*		2779 *(169.6)*	2982 *(182.0)*	2986 *(182.2)*
mm *(in.)* **N** *(kgf)* — ※	10–14 *(0.39–0.55)* ※196–343 *(20–35)*			8–12 *(0.31–0.47)* ※300–500 *(31–51)*	10–14 *(0.39–0.55)* ※196–343 *(20–35)*
	17–21 *(0.67–0.83)* ※196–392 *(20–40)*			15–21 *(0.59–0.83)* ※196–392 *(20–40)*	17–21 *(0.67–0.83)* ※196–392 *(20–40)*
	10–15 *(0.39–0.59)* ※196–343 *(20–35)*			—	10–15 *(0.39–0.59)* ※196–343 *(20–35)*
	9–12 *(0.35–0.47)* ※196–343 *(20–35)*				9–12 *(0.35–0.47)* ※196–343 *(20–35)*
20°C *(68°F)* Ω	0.72				
secs 20°C *(68°F)*	Europe, Thailand 3.0 Others 5.0	3.0	Malaysia 3.0 Others 5.0	1.0	Australia, Thailand 3.0 Others 5.0
mm *(in.)*	Europe 0.55–0.65 *(0.0217–0.0256)* Thailand 0.44–0.56 *(0.0173–0.0220)* Others 0.84–0.96 *(0.0331–0.0378)*	0.54–0.66 *(0.0213–0.0260)*	Malaysia 0.54–0.66 *(0.0213–0.0260)* Others 0.84–0.96 *(0.0331–0.0378)*	—	Thailand 0.44–0.56 *(0.0173–0.0220)* Others 0.64–0.76 *(0.0252–0.0299)*
	○ × × ×				
kPa *(kgf/cm², psi)*	14220–15200 *(145–155 2062–2205)*			14320–15100 *(146–154 2076–2190)*	15090–16290 *(154–166 2190–2361)*
	14810–15590 *(151–159 2148–2262)*			14808–15593 *(151–159 2148–2261)*	15581–16781 *(159–171 2262–2432)*
mm *(in.)*	0.20–0.30 *(0.008–0.012)*				
	0.40–0.50 *(0.016–0.020)*			0.25–0.35 *(0.010–0.014)*	0.40–0.50 *(0.016–0.020)*

rpm	650–750			650–750	750–850
	—				
	4770–5030	4670–4930	Malaysia 4270–4530 Others 4470–4730	4500–4700	4770–5030
kPa *(kgf/cm², psi)*	3138 *(32.0, 455)*	3040 *(31.0, 441)*	3138 *(32.0, 455)*	3040 *(31.0, 441)*	3138 *(32.0, 455)*
	⬆ 1961 *(20.0, 284)*			⬇ 1961 *(20.0, 284)*	⬆ 1961 *(20.0, 284)*
	⬇ 490 *(5.0, 71)*				
N·m *(kgf·cm, ft·lbf)* A	① 78 *(800, 58)* ② 90° ③ 90°			① 39 *(400, 29)* ② 90° ③ 90°	① 78 *(800, 58)* ② 90° ③ 90°
B	23.5 *(240, 17)*			29 *(290, 21)*	23.5 *(240, 17)*
C	52 *(530, 38)*				
D	64 *(650, 47)*			54 *(540, 40)*	64 *(650, 47)*
E	29.5 *(300, 22)*			30 *(300, 22)*	29.5 *(300, 22)*
kPa *(kgf/cm², psi)*	⬆ 29 *(0.3, 4.3)*				
3,000 rpm	294–539 *(3.0–5.5 43–78)*			250–600 *(2.5–6.1 36–87)*	294–539 *(3.0–5.5 43–78)*

	2L	2L–T	3L 2WD	3L 4WD	1KZ–TE	5L 2WD	5L 4WD
liter *(US qts, Imp. qts)*	5.3 *(5.6, 4.7)* (2WD) 6.0 *(6.3, 5.3)* (4WD & Pre Runner)				6.4 *(6.8, 5.6)*	5.3 *(5.6, 4.7)* (2WD) 6.0 *(6.3, 5.3)* (4WD & Pre Runner)	
	6.0 *(6.3, 5.3)* (2WD) 6.9 *(7.3, 6.1)* (4WD & Pre Runner)				7.1 *(7.5, 6.2)*	6.0 *(6.3, 5.3)* (2WD) 6.9 *(7.3, 6.1)* (4WD & Pre Runner)	
	API CF-4 or CF (You may also use API CE or CD)						
liter *(US qts, Imp. qts)*	w/Heater 9.5 *(10.0, 8.4)* w/o Heater 8.7 *(9.2, 7.7)*	9.7 *(10.3, 8.5)*	w/Heater 9.5 *(10.0, 8.4)* w/o Heater 8.7 *(9.2, 7.7)*		10.5	w/Heater 9.7 *(10.3, 8.5)* w/o Heater 8.9 *(9.4, 7.8)*	w/Heater 9.9 *(10.5, 8.7)* w/o Heater 9.1 *(9.6, 8.0)*

Printed in Japan

TOYOTA MOTOR CORPORATION

Pub. No. SDS416E

Hilux Diesel

LN141 – *0001872~* LN145 – *0034737~* LN146 – *0002565~* LN147 – *0006053~* LN150 – *0003855~*
LN152 – *0001129~* LN165 – *0022069~* LN166 – *0031683~* LN167 – *0017337~* LN170 – *0012327~*
LN171 – *0002864~* LN172 – *0003473~* LN191 – *0001579~*

TOYOTA QUALITY SERVICE

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

mm *(in.)*

	4 × 2	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, FMVSS No. 116 DOT3	

mm *(in.)*

196 N *(20 kgf, 44.1 lbf)*	11–17
A	⇧ 1.0 *(0.039)*
B	⇧ 23.0 *(0.906)* / ⇧ 18.0 *(0.709)*
	⇧ 1.0 *(0.039)*
	Europe ⇩ 272 *(10.709)* Others ⇩ 256 *(10.079)* / ⇩ 297.0 *(11.693)*

mm *(in.)*

	4 × 2	4 × 4
	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)*		
	LN191 103 *(1050, 76)* Others 137 *(1400, 101)*	103 *(1050, 76)*
N·m *(kgf·cm, ft·lbf)*		

	4 × 2	4 × 4
	2.2 *(2.3, 1.9)*	1KZ–TE 2.2 *(2.3, 1.9)* 3L, General 3.9 *(4.1, 3.4)* 2L–T 2.5 *(2.6, 2.2)* Others 2.8 *(3.0, 2.5)*
liter *(US qts, Imp. qts)*	**API GL–4 or GL–5 SAE 75W–90**	
	——	——
liter *(US qts, Imp. qts)*	——	——
	——	LN166※, 171 1.6 *(1.7, 1.4)* Others 1.1 *(1.2, 1.1)*
liter *(US qts, Imp. qts)*	**API GL–4 or GL–5 SAE 75W–90**	
	——	GCC 2.4 *(2.5, 2.1)* Others 1.8 *(1.9, 1.6)*
		w / A.D.D. 1.86 *(1.97, 1.65)* w / o A.D.D. 1.6 *(1.7, 1.4)*
		2.4 *(2.5, 2.1)*
liter *(US qts, Imp. qts)*	**Hypoid gear oil API GL–5 With LSD use LSD oil only With A.D.D. use SAE 75W–90 SAE 90**	

	LN
mm *(in.)*	⇩ 30 *(1.18)*

	4 × 2			4 × 4 (Include Pre Runner)		
	B–cab Short	B–cab Long	W–cab	C–cab	B–cab	W–cab	C–cab
A	**Please refer to the Repair Manual Pub.No.RM651E, RM706E (Service Specification)**						
B							
C							
D	36° +1° −2°				33° +1° −2°		
	38° +1° −2°						
mm *(in.)*	**Please refer to the Repair Manual Pub.No.RM651E (Service Specification)**						

6.00–14–6PRLT	200 *(2.0, 29)* ※2 180 *(1.8, 26)* ※3	——
6.50–14–8PRLT	——	425 *(4.25, 62)* ※2 240 *(2.4, 35)* ※3
185R14C–8PR	220 *(2.2, 32)*	450 *(4.5, 65)* 220 *(2.2, 32)* ※6
195R14C–8PR	220 *(2.2, 32)*	450 *(4.5, 65)* ※2 220 *(2.2, 32)* ※3, ※4, ※6
195R15C 195R15C–6PRLT	180 *(1.8, 26)*	375 *(3.75, 54)*
205R16 (Reinforced radial tire)	170 *(1.7, 25)*	260 *(2.6, 38)* ※5 240 *(2.4, 35)* ※6 170 *(1.7, 25)* ※3, ※4, ※6
205R16C–6PR	170 *(1.7, 25)*	300 *(3.0, 44)* ※2 200 *(2.0, 29)* ※3, ※4
7.00–16–8PRLT	240 *(2.4, 35)*	425 *(4.25, 62)*
255/70R15 112LT	190 *(1.9, 28)*	240 *(2.4, 35)* ※2 190 *(1.9, 28)* ※3, ※4

kPa *(kgf/cm² or bar, psi)*

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※1: Except LN166L–PRMDSV ※2: Loaded ※3: Unloaded ※4: Australia
※5: Europe ※6: Israel (Unloaded) ※7: Others

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