SDS TOYOTA Land Cruiser Diesel

(Hardtop & Canvas Top)

HZJ70, 73, 75 KZJ70,73,77
LJ 72, 79

Jan. '96

		3L	1KZ-T	1HZ
cm³ or CC (cu. in.)		2779 (169.6)	2982 (182.0)	4164 (254.1)
※ mm (in.) N (kgf)		10-14 (0.39-0.55) ※196-343 (20-35)	8-12 (0.31-0.47) ※196-343 (20-35)	8-11 (0.31-0.43) ※196-343 (20-35)
		17-21 (0.67-0.83) ※196-392 (20-40)	15-21 (0.59-0.83) ※196-392 (20-40)	16-22 (0.63-0.87) ※196-392 (20-40)
		10-15 (0.39-0.59) ※196-395 (20-40)	—	
20℃ (68℉) Ω		0.65		1.15 (12V) 2.90 (24V)
20℃ (68℉) secs		5.0	0.5	2.4 (12V-Austria) 5.0 (12V-Others) 1.5 (24V)
mm (in.)		0.84-0.96 (0.0331-0.0378)	0.39-0.43 (0.0154-0.0169) (Europe) 0.58-0.62 (0.0228-0.0244) (Others)	0.75-0.81 (0.0296-0.0319) (Europe) 1.03-1.09 (0.0406-0.0429) (Others)
		○	×	× ×
kPa (kgf/cm², psi)		14220-15200 (145-155 2062-2205)	13827-15593 (141-159 2006-2261)	13239-15200 (135-155 1920-2204)
		14808-15593 (151-159 2148-2261)		14220-15200 (145-155 2062-2204)
mm (in.)		0.20-0.30 (0.008-0.012)		0.15-0.25 (0.006-0.010)
		0.40-0.50 (0.016-0.020)	0.25-0.35 (0.010-0.014)	0.35-0.45 (0.014-0.018)

rpm		700		650
		—		
		(Hong Kong 4400 Singapole Malaysia) 4800 (U.S.S.R.) 4600 (Others)	4600	
kPa (kgf/cm², psi)		3138 (32.0, 455)	3040 (31.0, 441)	3628 (37.0, 526)
		⬆1961 (20.0, 284)		⬆2648 (27.0, 384)
		⬇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 69 (700, 51) ② 90° ③ 90°
	B	20 (240, 17)	29 (290, 21)	20 (200, 14)
	C	52 (530, 38)		43 (425, 31)
	D	64 (650, 47)		
	E	29 (300, 22)		37 (375, 27)
		⬆29 (0.3, 4.3)		
kPa (kgf/cm², psi)	3,000 rpm	294-539 (3.0-5.5 43-78)	250-600 (2.5-6.1 36-87)	245-588 (2.5-6.0 36-85)

	3L	1KZ-T	1HZ
liter (US qts, Imp. qts)	5.7 (6.0, 5.0)	7.0 (7.4, 6.2)	8.2 (8.7, 7.2)
	6.7 (7.7, 5.9)	7.7 (7.4, 6.2)	9.5 (10.1, 8.3)
	API CD better ※1	API CD or better	API CD or better (Europe) API CD or better ※1 (Others)
liter (US qts, Imp. qts)	w/ Front Heater 10.0 (10.6, 8.8) w/ Front and Rear Heaters 11.0 (11.6, 9.7) w/o Heater 9.3 (9.8, 8.2)	w/ Front Heater 9.5 (10.0, 8.4) w/ Front and Rear Heaters 10.5 (11.1, 9.2)	w/ Front Heater 10.4 (11.0, 9.2) w/ Front and Rear Heaters 11.4 (12.0, 10.0) w/o Heater 9.7 (10.3, 8.5)
	—	w/ Front Heater 10.0 (10.6, 8.8) w/ Front and Rear Heaters 11.0 (11.6, 9.7)	

Printed in Japan C

※1 If it is impossible to get API CD or better grade, you may use API CC.

TOYOTA MOTOR CORPORATION Pub. No. SDS356E

Land Cruiser Diesel

(Hardtop & Canvas Top)

HZJ70-0001951~, 8000322~ HZJ73-8001300~
HZJ75-0029887~, 8011244~, 8535153~, 9000499~, 9501007~, 7600440~ KZJ70-0001037~, 8005947~
KZJ73-8003998~ KZJ77-0001879~, 8000125~ LJ72-0006559~ LJ79-0012303~

TOYOTA
QUALITY SERVICE

	LJ	KZJ	HZJ
A	175.0–185.0 (6.89–7.28)		178.7–188.7 (7.04–7.43)
B	5–15 (0.20–0.59)		
B	—		15.0–30.0 (0.59–1.18)
C	25 (0.98)		
	SAE J1703 FMVSS No. 116 DOT3		

mm (in.)

	LJ•KZJ	HZJ
A	160.5–170.5 (6.32–6.71)	164.2–174.2 (6.46–6.86)
B	3–6 (0.12–0.24)	
C	68 (2.68)	
	SAE J1703 FMVSS No. 116 DOT3	

mm (in.)

196N (20kgf, 44lbf) — 7–9

A	1.0 (0.039)	
B	18.0 (0.709)	16.0 (0.630)

mm (in.)

	—	1.0 (0.039)
	—	1.5 (0.059) (HZJ) 1.0 (0.039) (LJ,KZJ)

mm (in.)

	—	211 (8.31)
	—	297.0 (11.693)

mm (in.)

	LJ	KZJ	HZJ
N (kgf, lbf)	28–56 (2.9–5.7, 6.4–12.6)		25–56 (2.6–5.7, 5.7–12.6)
N•m (kgf–cm, ft–lbf)	157 (1600, 116)		

	LJ	KZJ	HZJ
1 3 / 2 4 R	2.8 (3.0, 2.5)	—	—
1 3 5 / 2 4 R	2.6 (2.7, 2.3)	3.0 (3.2, 2.6)	4.9 (5.2, 4.3)
liter (US qts, Imp. qts)	API GL–4 or GL–5 SAE 75W–90 (LJ,KZJ) SAE 90 (HZJ)		
liter (US qts, Imp. qts)	—		
w/PTO	2.1 (2.2, 1.8)		2.2 (2.3, 1.9)
w/PTO	—		2.7 (2.8, 2.3)
liter (US qts, Imp. qts)	API GL–4 or GL–5 SAE 90		

LJ • KZJ		HZJ	
1.98 (2.1, 1.7)	1.85 (2.0, 1.6)	2.6 (2.7, 2.3)	2.5 (2.6, 2.2)

liter (US qts, Imp. qts)

Hypoid gear oil API GL–5
With LSD use LSD oil only
SAE90 (– 18℃ (0°F))
SAE80W, 80W–90 (– 18℃ (0°F))

	LJ • KZJ • HZJ
	40 (1.6)

mm (in.)

	LJ KZJ	HZJ 70,73	HZJ 75L(R) V	HZJ 75L(R) P
A	1°±45′ (1°±0.75°)			
B	12°±45′ (12°±0.75°)			
C	4°00′±1° (4°±1°)	3°15′±1° (3.25°±1°)	2°50′±1° (2.83°±1°)	2°30′±1° (2.5°±1°)
D	32° +0 −3	30° +0 −3		
E+F	−0°06′±12′ (−0.01°±0.2°)	(31×10.50R15-6PRLT)	265/75R15 (Others)	
E+F	0.06°±12′ (0.01°±0.2°)			
G–H	0°24°±12′ (0.4°±0.2°)			
G–H	−1±2 (−0.04±0.08)	(31×10.50R15-6PRLT)	265/75R15 (Others)	
G–H	1±2 (0.04±0.8)			
mm (in.)	4±2 (0.16±0.08)			

Australia kPa (kgf/cm², psi)	HZJ75	7.50R16–8PRLT	220 (2.2, 32)	390 (3.9, 55)	240 (2.4, 34)	420 (4.2, 60)
Europe kPa (kgf/cm², psi)	KZJ70,73	215/80R16 107S	160 (1.6, 23)	200 (2.0, 29)	180 (1.8, 26)	240 (2.4, 35)
			※180 (1.8, 26)	※240 (2.4, 35)	—	—
		265/75R15 112S	180 (1.8, 26)	200 (2.0, 29)	180 (1.8, 26)	200 (2.0, 29)
	KZJ77	215/80R16 107S	180 (1.8, 26)	260 (2.6, 38)	180 (1.8, 26)	260 (2.6, 38)
		265/75R15 112S	180 (1.8, 26)	200 (2.0, 29)	180 (1.8, 26)	200 (2.0, 29)
	HZJ70,73	215/80R16 107S	180 (1.8, 26)	200 (2.0, 29)	200 (2.0, 29)	220 (2.2, 32)
		265/75R15 112S	180 (1.8, 26)	200 (2.0, 29)	180 (1.8, 26)	200 (2.0, 29)
※Unloaded	HZJ75	205R16C 8PR	220 (2.2, 32)	450 (4.5, 65)	250 (2.5, 36)	450 (4.5, 65)
General kPa (kgf/cm², psi)	HZJ70	7.50–16–6PRLT	180 (1.8, 26)	200 (2.0, 29)	180 (1.8, 26)	240 (2.4, 35)
		7.00R15–6PRLT	200 (2.0, 29)	275 (2.75, 40)	225 (2.25, 33)	300 (3.0, 44)
		7.50–16–6PRLT	200 (2.0, 29)	225 (2.25, 33)	225 (2.25, 33)	250 (2.5, 36)
		7.50R16–8PRLT	200 (2.0, 29)	225 (2.25, 33)	225 (2.25, 33)	250 (2.5, 36)
		31×10.50R15–6PRLT	180 (1.8, 26)	250 (2.5, 36)	210 (2.1, 30)	280 (2.8, 41)
	HZJ75	7.50–16–8PRLT	240 (2.4, 35)	350 (3.5, 51)	280 (2.8, 41)	400 (4.0, 58)
		7.50R16–8PRLT	225 (2.25, 33)	375 (3.75, 54)	250 (2.5, 36)	400 (4.0, 58)
		235/95RC 116N	180 (1.8, 26)	220 (2.2, 32)	180 (1.8, 26)	280 (2.8, 41)
	LJ72 KZJ70	7.50–16–6PRLT	180 (1.8, 26)	180 (1.8, 26)	180 (1.8, 26)	220 (2.2, 32)
		7.00R15–6PRLT	200 (2.0, 29)	275 (2.75, 40)	225 (2.25, 33)	300 (3.0, 44)
		7.50R16–6PRLT	200 (2.0, 29)	225 (2.25, 33)	225 (2.25, 33)	250 (2.5, 36)
		205R16C 6PR	170 (1.7, 25)	200 (2.0, 29)	170 (1.7, 25)	240 (2.4, 35)
		31×10.50R15–6PRLT	180 (1.8, 26)	210 (2.1, 30)	180 (1.8, 26)	250 (2.5, 36)
	LJ79 KZJ77	7.50–16–6PRLT	180 (1.8, 26)	260 (2.6, 38)	180 (1.8, 26)	300 (3.0, 44)
		7.50R16–6PRLT	225 (2.25, 33)	350 (3.5, 51)	250 (2.5, 36)	375 (3.75, 54)
		205R16C 8PR	200 (2.0, 29)	320 (3.2, 46)	200 (2.0, 29)	360 (3.6, 52)
		31×10.50R15–6PRLT	190 (1.9, 28)	280 (2.8, 41)	190 (1.9, 28)	300 (3.0, 44)

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Overseas Service Division : 01–960124–00