SDS TOYOTA Land Cruiser Diesel

(Hardtop & Canvas Top)

HZJ71, 74, 78, 79
HDJ 78, 79

Jan. '04

		1HZ	1HD-FTE
cm³ or CC *(cu. in.)*		4164 *(254.0)*	
mm *(in.)* N *(kgf)* ※		8–11 *(0.31–0.43)* ※200–390 *(20–40)*	
		16–22 *(0.63–0.87)* ※196–392 *(20–40)*	13–18 *(0.51–0.71)* ※196–392 *(20–40)*
Ω **20°C** *(68°F)*		0.75 *(12V)* 3.1 *(24V)*	—
secs **20°C** *(68°F)*		Malaysia, Bangladesh 1.0 Others 2.4	0.5
mm *(in.)*		w/ ACSD*1 0.65–0.71 *(0.0256–0.0280)* w/o ACSD*1 0.85–0.91 *(0.0335–0.0358)*	—
		○ × × ×	○ × × ×
kPa *(kgf/cm², psi)*		14220–15200 *(145–155, 2062–2205)*	17162–18142 *(175–185, 2489–2632)*
		14710–15690 *(150–160, 2133–2276)*	17652–18633 *(180–190, 2560–2632)*
mm *(in.)*	H C	0.15–0.25 *(0.006–0.010)*	0.17–0.23 *(0.007–0.009)*
	H C	0.35–0.45 *(0.014–0.018)*	0.47–0.53 *(0.019–0.021)*

			1HZ	1HD-FTE
rpm			600–700	550–650
	H C		4500–4700	4200–4400
kPa *(kgf/cm², psi)*			3628 *(37.0, 526)*	3432 *(35.0, 498)*
			⬆ 2648 *(27.0, 384)*	⬆ 2452 *(25.0, 356)*
			⬇ 490 *(5.0, 71)*	
N·m *(kgf-cm, ft-lbf)*		A	① 68.6 *(700, 51)* ② 90° ③ 90°	
		B	19.6 *(200, 14)*	
		C	41.7 *(425, 31)*	
		D	63.7 *(650, 47)*	25 *(255, 18)*
		E	46.6 *(475, 34)*	29 *(300, 22)*
kPa *(kgf/cm², psi)*			⬆ 29 *(0.3, 4.3)*	
	H C	3,000 rpm	250–600 *(2.5–6.1, 36–87)*	250–600 *(2.5–6.1, 36–87)*

	1HZ	1HD-FTE
liter *(US qts, Imp. qts)*	10.0 *(10.6, 8.8)*	10.1 *(10.7, 8.9)*
	11.3 *(11.9, 9.9)*	11.4 *(12.0, 10.0)*
	API CF-4 or G-DLD-1 **(You may also use API CE or CD.)**	
liter *(US qts, Imp. qts)*	w/ Front Heater *2 10.7 *(11.3, 9.4)* *3 10.6 *(11.2, 9.3)* w/ Front and Rear Heaters 11.7 *(12.4, 10.3)* w/o Heater 9.8 *(10.4, 8.6)*	10.9 (11.5, 9.6)

*1 ACSD: Automatic Cold Start Device
*2 Australia *3 Others

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TOYOTA MOTOR CORPORATION

Pub. No. SDS480E

Land Cruiser Diesel

(Hardtop & Canvas Top)

HZJ71 – *0001544~*, *8001082~* HZJ74 – *0001763~* HZJ78 – *0018415~* HZJ79 – *0001455~*, *7033556~*, *8004436~*
HDJ78 – *0001380~*, *6000330~* HDJ79 – *0005008~*, *6001123~*

TOYOTA QUALITY SERVICE

Brake

		HZJ	HDJ
A		186 *(7.32)*	
B		5–15 *(0.20–0.60)*	
		15–30 *(0.60–1.20)*	
C		↑ 25 *(0.98)*	
mm *(in.)*		SAE J1703 or FMVSS No. 116 DOT3	

Wheel

	HZJ	HDJ
A	161.6–171.6 *(6.36–6.76)*	164.7–174.7 *(6.48–6.88)*
B	1–6 *(0.04–0.24)*	
C*1	↑ 68 *(2.70)*	
mm *(in.)*	SAE J1703 or FMVSS No. 116 DOT3	

196 N *(20 kgf, 44 lbf)* — 7–9

		HZJ	HDJ
A		↑ 1.0 *(0.039)*	
B		↑ 30.0 *(1.181)*	↑ 16.0 *(0.630)*
mm *(in.)*			
mm *(in.)*		——	↑ 1.0 *(0.039)*
mm *(in.)*		——	↑ 1.5 *(0.059)*
mm *(in.)*		——	↓ 211.0 *(8.31)*
mm *(in.)*		——	↓ 297.0 *(11.693)*

Brake booster

N *(kgf, lbf)*	26–52 *(2.7–5.3 6.0–11.7)*	24–53 *(2.4–5.3 5.3–11.7)*
N·m *(kgf-m, ft-lbf)*	Steel wheels 209 *(21.3, 154.2)* Aluminum wheels 131 *(13.4, 96.6)*	

Fluid

	HZJ	HDJ
liter *(US qts, Imp. qts)*	2.2 *(2.3, 1.9)*	2.7 *(2.9, 2.4)*
	API GL–4 or GL–5 SAE 75W–90	
liter *(US qts, Imp. qts)*	2.1 *(2.2, 1.8)*	1.4 *(1.5, 1.2)*
	API GL–4 or GL–5 SAE90	API GL–4 or GL–5 SAE 75W–90
liter *(US qts, Imp. qts)*	2.6 *(2.7, 2.3)*	w/ Differential lock 2.3 *(2.4, 2.0)* w/o Differential lock 2.4 *(2.5, 2.1)*
	Hypoid gear oil API GL–5 With LSD use LSD oil only SAE 90 (↑ –18°C *(0°F)*) SAE 80W or 80W–90 (↓ –18°C *(0°F)*)	

Steering

	HZJ	HDJ
mm *(in.)*	↓ 40 *(1.6)*	

Wheel alignment

		HZJ 71, 78	HZJ 79	HDJ 78	HDJ 79
A		1°±45′ *(1°±0.75°)*			
B		13°±45′ *(13°±0.75°)*			
C		4°20′±45′ *(4.33°±0.75°)*	3°35′±45′ *(3.58°±0.75°)*	4°20′±45′ *(4.33°±0.75°)*	3°35′±45′ *(3.58°±0.75°)*
D		32° *(28°–32°)*			
E+F		0°00′±12′ *(0.0°±0.2°)*			
		0°12′±12′ *(0.2°±0.2°)*			
G–H mm *(in.)*		0±2 *(0.00±0.08)*			
		2±2 *(0.08±0.08)*			

Tire and wheel

			Unladen vehicle		Fully laden vehicle	
Australia KPa *(kgf/cm², psi)*	HDJ78 HZJ78	7.50R16 8PRLT	250*4 *(2.5, 36)*	275*4 *(2.75, 40)*	250 *(2.5, 36)*	475 *(4.75, 69)*
	HDJ79, HZJ79	7.50R16 8PRLT	250*5 *(2.5, 36)*		250 *(2.5, 36)*	475 *(4.75, 69)*
		7.50-16-8PRLT*6	240*5 *(2.4, 35)*		240 *(2.4, 35)*	425 *(4.25, 62)*
		265/70R16 115R LT (HDJ79 only)	250*5 *(2.5, 36)*		250 *(2.5, 36)*	350 *(3.5, 51)*
General KPa *(kgf/cm², psi)*	HZJ71	7.50-16 109/107L	180*3 *(1.8, 26)*		180 *(1.8, 26)*	325 *(3.25, 47)*
		7.50R16-8PRLT	200*3 *(2.0, 29)*		200 *(2.0, 29)*	375 *(3.75, 54)*
		265/70R16 112S*2	180*3 *(1.8, 26)*		180 *(1.8, 26)*	220 *(2.2, 32)*
	HZJ78, 79	7.50-16-8PRLT	240 *(2.4, 35)* HZJ78*4, HZJ79*5		240 *(2.4, 35)*	425 *(4.25, 62)*
		7.50R16 112/107R 7.50R16C 112/110R 7.50R16-8PRLT	250 *(2.5, 36)* HZJ78*4 HZJ79*5	300 *(3.0, 44)* HZJ78*4 HZJ79*5	250 *(2.5, 36)*	475 *(4.75, 69)*
		225/95R16C 118/116R (HZJ79 only)	220*5 *(2.2, 32)*	260*5 *(2.6, 38)*	220 *(2.2, 32)*	450 *(4.5, 65)*

*1 When brake pedal is depressed with force of 490 N (50 kgf, 110 lbf) while engine is running.
*2 With over fender
*3 Unladen with 2 occupants and 200 kg (440.9 lb.) of luggage or less
*4 Unladen with 2 occupants and 400 kg (881.8 lb.) of luggage or less
*5 Unladen with 2 occupants and 500 kg (1102.3 lb.) of luggage or less
*6 Papua New Guinea only

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