

		UZS190, GRS190	
	A	120.5 to 130.5 (4.794 to 5.138)	
	B	1.0 to 2.0 (0.039 to 0.079)	
	C*1	↑ 69 (2.71)	
mm (in.)		SAE J1703 or FMVSS No. 116 DOT3	
300 N (30.6 kgf, 67 lbf)		7 to 9	
mm (in.)	A	↑ 1.0 (0.039)	
	B	↑ 30.0 (1.181)	↑ 16.5 (0.650)
		↑ 1.0 (0.039)	
		↓ 191 (7.52)	
mm (in.)			
		UZS190, GRS190	
		3GR-FE, 3UZ-FE 1.3 (1.4, 1.1) 3GR-FSE 1.1 (1.2, 1.0)	
liter (US qts, Imp. qts)		Toyota Genuine ATF WS	
		3GR-FE, 3GR-FSE 1.15 (1.2, 1.0) 3UZ-FE 1.35 (1.4, 1.2)	
liter (US qts, Imp. qts)		3GR-FE Hypoid gear oil, API GL-5 ↑ -18°C (0°F) SAE 90 ↓ -18°C (0°F) SAE 80W or 80W-90	
		3GR-FSE Toyota Genuine Differential Synthetic gear oil API GL-5 SAE 75W-90 or its equivalent	
N-m (kgf-cm, ft-lbf)	A	20 (204, 15)	
	B	49 (500, 36)	

		UZS190, GRS190						
		103 (1050, 76)						
N-m (kgf-cm, ft-lbf)								
		UZS190, GRS190						
		↓ 30 (1.18)						
mm (in.)								
		GS300	GS430	GS300	GS430			
	A	-0°23'+-45' (-0.38°+-0.75°)	-0°26'+-45' (-0.43°+-0.75°)	-1°10'+-45' (-1.17°+-0.75°)	-1°19'+-45' (-1.32°+-0.75°)			
	B	9°23'+-45' (9.38°+-0.75°)	9°26'+-45' (9.43°+-0.75°)	—				
	C	7°23'+-45' (7.38°+-0.75°)	7°26'+-45' (7.43°+-0.75°)	—				
	D	41°49' (41.82°)	41°48' (41.80°)	—				
		E-F						
mm (in.)		1+1 (0.04+-0.08)		3+2 (0.12+-0.08)				
		km/h (mph)						
	kPa (kgf/cm ² or bar, psi)	Europe (3GR-FE)	225/50 R17 94W	↑ 210 (131) ↓ 210 (131) ↑ 160 (100)	260 (2.7, 38)	270 (2.7, 39)	270 (2.7, 39)	320 (3.2, 46)
			245/40 ZR 18	↑ 210 (131) ↓ 210 (131) ↑ 160 (100)	240 (2.4, 35)	250 (2.5, 36)	240 (2.4, 35)	290 (2.9, 42)
			245/40 ZR 18	↑ 210 (131) ↓ 210 (131) ↑ 160 (100)	230 (2.3, 33)	230 (2.3, 33)	230 (2.3, 33)	260 (2.7, 38)
			245/40 R18 93Y	↑ 210 (131) ↓ 210 (131) ↑ 160 (100)	260 (2.7, 38)	270 (2.7, 39)	270 (2.7, 39)	310 (3.1, 45)
			245/40 R18 93Y	↑ 210 (131) ↓ 210 (131) ↑ 160 (100)	240 (2.4, 35)	250 (2.5, 36)	240 (2.4, 35)	270 (2.7, 39)
			245/40 ZR 18	↑ 210 (131) ↓ 210 (131) ↑ 160 (100)	230 (2.3, 33)	230 (2.3, 33)	230 (2.3, 33)	260 (2.7, 38)
		Others (3GR-FE)	225/50 R17 94W	↑ 210 (131) ↓ 210 (131) ↑ 160 (100)	260 (2.7, 38)	270 (2.7, 39)	270 (2.7, 39)	320 (3.2, 46)
			245/40 ZR 18	↑ 210 (131) ↓ 210 (131) ↑ 160 (100)	240 (2.4, 35)	250 (2.5, 36)	240 (2.4, 35)	290 (2.9, 42)
			245/40 ZR 18	↑ 210 (131) ↓ 210 (131) ↑ 160 (100)	230 (2.3, 33)	230 (2.3, 33)	230 (2.3, 33)	260 (2.7, 38)
			245/40 R18 93Y	↑ 210 (131) ↓ 210 (131) ↑ 160 (100)	260 (2.7, 38)	270 (2.7, 39)	270 (2.7, 39)	310 (3.1, 45)
			245/40 ZR 18	↑ 210 (131) ↓ 210 (131) ↑ 160 (100)	240 (2.4, 35)	250 (2.5, 36)	240 (2.4, 35)	270 (2.7, 39)
			245/40 ZR 18	↑ 210 (131) ↓ 210 (131) ↑ 160 (100)	230 (2.3, 33)	230 (2.3, 33)	230 (2.3, 33)	260 (2.7, 38)

*1 When brake pedal is depressed with force of 490 N (50 kgf, 110.1 lbf) while engine is running.

GS430/300

UZS190, GRS190

Jan. '05

		UZS190, GRS190	
 *1	 *2	 *3	
	 *4	 *5	VGRS
 20°C (68°F)		1.25 to 1.29	
		3GR-FE	3GR-FSE
cm³ or cc (cu. in.)		2995 (182.75)	4293 (262.0)
		A: Used B: New	
 A	DENSO	SK20R11	
	NGK	IFR6A11	
	A mm (in.)	1.1 (0.043)	
 BTDC	8 to 12° (Terminals TC and CG of DLC3 Connected)		
 mm (in.)		0.15 to 0.25 (0.006 to 0.010)	
		0.25 to 0.35 (0.010 to 0.014)	
 (DLC3 Terminal 9 (TAC) Connected)	600 to 700		700 to 800

 kPa (kgf/cm ² , psi)		1400 (14, 199)	1226 (12.5, 174)
		980 (10.0, 142)	981 (10.0, 142)
		100 (1.0, 15)	98 (1.0, 14)
 kPa (kgf/cm ² , psi)		80 (0.8, 11.6)	29 (0.3, 4.2)
		6,000 rpm 380 (3.9, 55.5)	3,000 rpm 294 to 588 (3.0 to 6.0, 43 to 85)
		3GR-FE	3GR-FSE
 A		5.9 (6.2, 5.2)	4.5 (4.8, 4.0)
		6.3 (6.7, 5.5)	5.2 (5.5, 4.6)
	20W-50 15W-40	API grade SJ or SL multigrade engine oil	
10W-30 5W-30	API grade SJ "Energy-Conserving", SL "Energy-Conserving" or ILSAC ⁶ multigrade engine oil		
 N·m (kgf-cm, ft-lbf)	A	40 (408, 32)	39 (400, 29)
	 liter (US qts, Imp. qts)	9.1 (9.6, 8.0)	
 liter (US qts, Imp. qts)			11 (11.7, 9.7)

*1 Initialization required. Refer to the repair manual for the initialization procedures. *2 Power Window Control System *3 Sliding Roof System

*4 Clearance Sonar System *5 VGRS: Variable Gear Ratio Steering System *6 ILSAC: International Lubricant Standardization and Approval Committee