

## 9. RECOMMENDED OILS

Use only oils listed below or equivalent.

Do not mix different brand oil.

Service point	Kind of fluid	Capacity l (U.S. gal)	Ambient temperature °C (°F)						
			-20 (-4)	-10 (14)	0 (32)	10 (50)	20 (68)	30 (86)	40 (104)
Engine oil pan	Engine oil	24.0(6.3)							
							SAE 30		
					SAE 10W				
						SAE 10W-30			
							SAE 15W-40		
Swing drive	Gear oil	5.0(1.3)							
Final drive		5.4 × 2 (1.4 × 2)					SAE 85W-140		
Hydraulic tank	Hydraulic oil	Tank; 180(48)  System; 290(77)							
						ISO VG 32			
							ISO VG 46		
								ISO VG 68	
Fuel tank	Diesel fuel	340(90)							
						ASTM D975 NO.1			
								ASTM D975 NO.2	
Fitting (Grease nipple)	Grease	As required							
						NLGI NO.1			
								NLGI NO.2	
Radiator (Reservoir tank)	Mixture of antifreeze and water 50 : 50	35(9.2)							
							Ethylene glycol base permanent type		

**SAE** : Society of Automotive Engineers

**API** : American Petroleum Institute

**ISO** : International Organization for Standardization

**NLGI** : National Lubricating Grease Institute

**ASTM** : American Society of Testing and Material