

9. RECOMMENDED OILS

**Use only oils listed below or equivalent.
Do not mix different brand oil.**

Service point	Kind of fluid	Capacity (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	25(6.6)							
								SAE 30	
						SAE 10W			
							SAE 10W-30		
								SAE 15W-40	
Swing drive	Gear oil	7.0(1.9)							
Final drive		11.0 × 2 (2.9 × 2)						SAE 85W-140	
Hydraulic tank	Hydraulic oil	Tank; 210(55.5) System; 320(84.5)							
								ISO VG 32	
								ISO VG 46	
Fuel tank	Diesel fuel	480(127)							
								ASTM D975 NO.1	
Fitting (Grease nipple)	Grease	As required							
								ASTM D975 NO.2	
Radiator (Reservoir tank)	Mixture of antifreeze and water 50 : 50	45(12)							
								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