

## 9. RECOMMENDED OILS

Use only oils listed below or equivalent.

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	45.4(12) 43.5(11.5) (Low noise)	SAE 30						
			SAE 10W						
			SAE 10W-30						
			SAE 15W-40						
Swing drive	Gear oil	6.0 × 2 (1.6 × 2)	SAE 85W-140						
Final drive		25 × 2 (6.6 × 2)							
Hydraulic tank	Hydraulic oil	Tank; 450(119)	ISO VG 32						
		System; 800(211)	ISO VG 46						
			ISO VG 68						
Fuel tank	Diesel fuel	940(248)	ASTM D975 NO.1						
			ASTM D975 NO.2						
Lower roller	Gear oil	1.56(0.4)	SAE 85W-140						
Upper roller		0.6(0.15)							
Idler		1.1(0.3)							
Fitting (Grease nipple)	Grease	As required	NLGI NO.1						
			NLGI NO.2						
Radiator (Reservoir tank)	Mixture of antifreeze and water 50 : 50	50(13.2) 56(15) (Low noise)	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