

3. FUEL, COOLANT AND LUBRICANTS

1) NEW MACHINE

New machine used and filled with following lubricants.

| Description | Specification |
|---------------------------------|--|
| Engine oil | SAE 15W-40 (API CH-4) |
| Hydraulic oil | Hyundai genuine long life hydraulic oil (ISO VG 46, VG 68 only) Coventional hydraulic oil (ISO VG 32) |
| Swing and travel reduction gear | SAE 85W-140 (API GL-5) |
| Grease | Lithium base grease NLGI No. 2 |
| Fuel | ASTM D975-No. 2 |
| Coolant | Mixture of 50% ethylene glycol base antifreeze and 50% water. |

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2) 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 (6.3) | | | | | SAE 30 | | | |
| | | | SAE 10W | | | | | | | |
| | | | SAE 10W-30 | | | | | | | |
| | | | SAE 15W-40 | | | | | | | |
| Swing drive | Gear oil | 6.0 (1.6) | | | | | | | | |
| Final drive | | 9.5 × 2 (-#0317) (2.5 × 2) 8.0 × 2 (#0318-) (2.1 × 2) | SAE 85W-140 | | | | | | | |
| Hydraulic tank | Hydraulic oil | Tank; 190 (50) | ISO VG 32 | | | | | | | |
| | | System; 330 (87) | ISO VG 46 | | | | | | | |
| | | | ISO VG 68 | | | | | | | |
| Fuel tank | Diesel fuel | 500 (132) | 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 | 50 (13.2) | Ethylene glycol base permanent type | | | | | | | |

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