3. FUEL, COOLANT AND LUBRICANTS

1) NEW MACHINE

New machine used and filled with following lubricants.

| Description | Specification | | | |
|---------------------------------|---------------------------------------------------------------|--|--|--|
| Engine oil | SAE 15W-40(API CF-4) | | | |
| Hydraulic oil | ISO VG 46(SAE 10W) | | | |
| 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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API : American Petroleum Institute

ISO: International Organization for Standardization

NLGI : National Lubricating Grease InstituteASTM : American Society of Testing and Material

2) RECOMMENDED OILS

Use only oils listed below or equivalent.

Do not mix different brand oil.

| Service point Kind of fluid | | Consoit | Ambient temperature °C (°F) | | | | | | |
|-----------------------------------|------------------------------------------------|-----------------------------------|-----------------------------|----------------|------------|------------|------------|-------------|------|
| | Capacity l (U.S. gal) | -20 (-4) | -10 (14) | 0 (32) | 10 (50) | 20 (68) | 30 (86) | 40 (104) | |
| Engine oil pan | Engine oil | 27.3(7.2) | | | | | SAE | 30 | |
| | | | | | 45 400 | , | | | |
| | | | | 5/ | 4E 10W | | | | |
| | | | | | SA | E 10W-3 | 80 | | |
| | | | | SAE 15W-40 | | | | | |
| | | | | | | 0,12 10 | | | |
| Swing drive | | 7.0(1.8) | | | | | | | |
| Swing drive | Gear oil | 11×2 (2.9×2) | | SAE 85W-140 | | | | | |
| Final drive | | | | | | | | | |
| | | | | | | | | | |
| Hydraulic tank Hydraulic oil | | Tank; | | IS | O VG 3 | 2 | | | |
| | Hydraulic oil | 210(55.5) System; 320(84.5) | | ISO VG 46 | | | | | |
| | • | | | | | | | | |
| | | | | | | IS | O VG 68 | 3 | |
| | | | | | | | | | |
| Fuel tank Diesel fuel | 5 | uel 450(118.9) | ASTI | И D975 N | IO.1 | | | | |
| | Diesel fuel | | | ASTM D975 NO.2 | | | | | |
| | | | | | 7,011 | 100701 | 10.2 | | |
| Fitting (Grease nipple) Grease | | | | | | | | | |
| | _ | As required | NL | .GI NO.1 | | | | | |
| | Grease | | | NLGI NO.2 | | | | | |
| | | | | | | IVE | -GI 140.2 | _ | |
| Radiator (Reservoir tank) | Mixture of antifreeze and water 50:50 | 62(16.3) | | Eth | ylene g | lycol bas | e perma | anent typ | oe . |

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