

## 8. RECOMMENDED OILS

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

| Service point                | Kind of fluid                                    | Capacity<br>l (U.S. gal)                   | Ambient temperature °C (°F)         |             |           |                |            |            |             |
|------------------------------|--|--|-------------------------------------|-------------|-----------|----------------|------------|------------|-------------|
|                              |  |  | -20<br>(-4)                         | -10<br>(14) | 0<br>(32) | 10<br>(50)     | 20<br>(68) | 30<br>(86) | 40<br>(104) |
| Engine oil pan               | Engine oil                                       | 14.2(3.8)                                  | SAE 30                              |             |           |                |            |            |             |
| Transmission case            |  |  | SAE 10W                             |             |           |                |            |            |             |
|                              |  | 3.2(0.85)                                  | SAE 10W-30                          |             |           |                |            |            |             |
| Swing drive                  | Gear oil   | 5.0(1.3)                                   | SAE 85W-140                         |             |           |                |            |            |             |
|                              | Grease   | 1.2(0.3)                                   | NLGI NO.1                           |             |           |                |            |            |             |
|                              |  |  |                                     |             |           | NLGI NO.2      |            |            |             |
| Front axle                   | Gear oil   | Center :<br>12×2(3.2×2)                    | SAE 85W-90                          |             |           |                |            |            |             |
| Rear axle                    |  | Hub :<br>2×4(0.5×4)                        |                                     |             |           |                |            |            |             |
| Hydraulic tank               | Hydraulic oil                                    | Tank:<br>180(47.6)<br>System:<br>270(71.3) | ISO VG 32                           |             |           |                |            |            |             |
|                              |  |  |                                     |             |           | ISO VG 46      |            |            |             |
|                              |  |  |                                     |             |           | ISO VG 68      |            |            |             |
| Fuel tank                    | Diesel fuel                                      | 310(82)                                    | ASTM D975 NO.1                      |             |           |                |            |            |             |
|                              |  |  |                                     |             |           | ASTM D975 NO.2 |            |            |             |
| Fitting<br>(Grease nipple)   | Grease   | As required                                | NLGI NO.1                           |             |           |                |            |            |             |
|                              |  |  |                                     |             |           | NLGI NO.2      |            |            |             |
| Radiator<br>(Reservoir tank) | Mixture of<br>antifreeze<br>and water<br>50 : 50 | 35(9.2)                                    | Ethylene glycol base permanent type |             |           |                |            |            |             |

**SAE** : Society of Automotive Engineers

**API** : American Petroleum Institute

**ISO** : International Organization for Standardization Material

**NLGI** : National Lubricating Grease Institute

**ASTM** : American Society of Testing and