

## ENGINE OIL

### NOTICE

- Only use the engine oil specified. Other engine oils may affect warranty coverage, cause internal engine components to seize, or shorten engine life.
- Prevent dirt and debris from contaminating the engine oil. Carefully clean the oil cap/dipstick and the surrounding area before you remove the cap.
- Never mix different types of engine oil. This may adversely affect the lubricating properties of the engine oil.
- Never overfill. Overfilling may result in white exhaust smoke, engine overspeed or internal damage.

### Engine Oil Specifications

Use an engine oil that meets or exceeds the following guidelines and classifications:

#### ■ Service categories

- API service categories CJ-4
- ACEA service categories E6
- JASO service category DH-2

#### ■ Definitions

- API classification (American Petroleum Institute)
- ACEA classification (Association des Constructeurs Européens d'Automobiles)
- JASO (Japanese Automobile Standards Organization)

### NOTICE

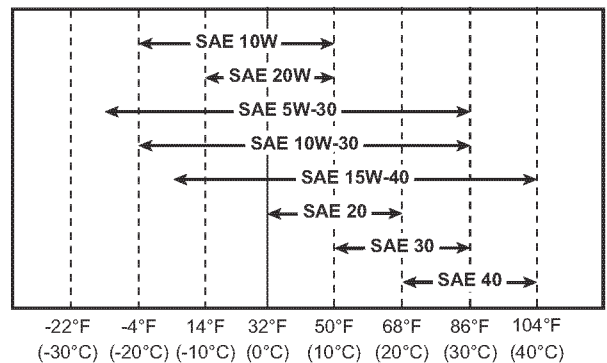
- Be sure the engine oil, engine oil storage containers, and engine oil filling equipment are free of sediments and water.
- Change the engine oil after the first 50 hours of operation and then at every 200 hours thereafter.
- Select the oil viscosity based on the ambient temperature where the engine is being operated. See SAE service grade viscosity chart (**Figure 2**).
- YANMAR does not recommend the use of engine oil "additives".

#### ■ Additional technical engine oil requirements:

The engine oil must be changed when the Total Base Number (TBN) has been reduced to 1.0 mgKOH/g. TBN (mgKOH/g) test method; JIS K-201-5.2-2 (HCl), ASTM D4739 (HCl)

### Engine Oil Viscosity

Select the appropriate engine oil viscosity based on the ambient temperature and use the SAE service grade viscosity chart in **Figure 2**.



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**Figure 2**