



Oil And Filter Replacement

CAUTION

- Prolonged and repeated contact with mineral oil will result in the removal of natural fats from the skin, leading to dryness, irritation and dermatitis. In addition, used engine oil contains potentially harmful contaminants which may cause skin cancer.
- Exercise caution in order to minimize the length and frequency of contact of your skin to used oil. Wear protective clothing and gloves. Wash your skin thoroughly with soap and water, or use water-less hand cleaner, to remove any used engine oil. Do not use gasoline, thinners, or solvents.
- In order to preserve the environment, used oil and used oil filter must be disposed of only at designated disposal sites.

1. Drain the engine oil.
 - (1) Remove the oil filler cap.
 - (2) Remove the oil drain plug, and drain the oil into a container.
2. Replace the oil filter.
 - (1) Remove the oil filter.
 - (2) Check and clean the oil filter installation surface.
 - (3) Check the part number of the new oil filter is as same as old one.
 - (4) Apply clean engine oil to the gasket of a new oil filter.
 - (5) Lightly screw the oil filter into place, and tighten it until the gasket contacts the seat.
 - (6) Tighten it with the torque below.

Tightening torque :

11.8 ~ 15.7N.m (1.2 ~ 1.6kgf.m, 8.7 ~ 11.6lb-ft)

3. Refill with engine oil.
 - (1) Clean and install the oil drain plug with a new gasket.

Tightening torque :

34.3 ~ 44.1N.m (3.5 ~ 4.5kgf.m, 25.3 ~ 32.5lb-ft)

- (2) Fill with fresh engine oil.

Capacity

Total : 3.7L (3.91US qt, 3.25Imp qt, 0.97 US gal)

Oil pan : 3.0L (3.17US qt, 2.64Imp qt, 0.79 US gal)

Drain and refill including oil filter :

3.3 L (3.49US qt, 2.90Imp qt, 0.87 US gal)

- (3) Install the oil filler cap.

4. Start engine and check for oil leaks.
5. Recheck the engine oil level.

Inspection

Engine Oil

1. Check the engine oil quality.
Check the oil deterioration, entry of water, discoloring or thinning.
If the quality is visibly poor, replace the oil.
2. Check the engine oil level.
After warming up the engine and then 5 minutes after the engine stop, oil level should be between the "L" and "F" marks in the dipstick.
If low, check for leakage and add oil up to the "F" mark.

NOTE

Do not fill with engine oil above the "F" mark.

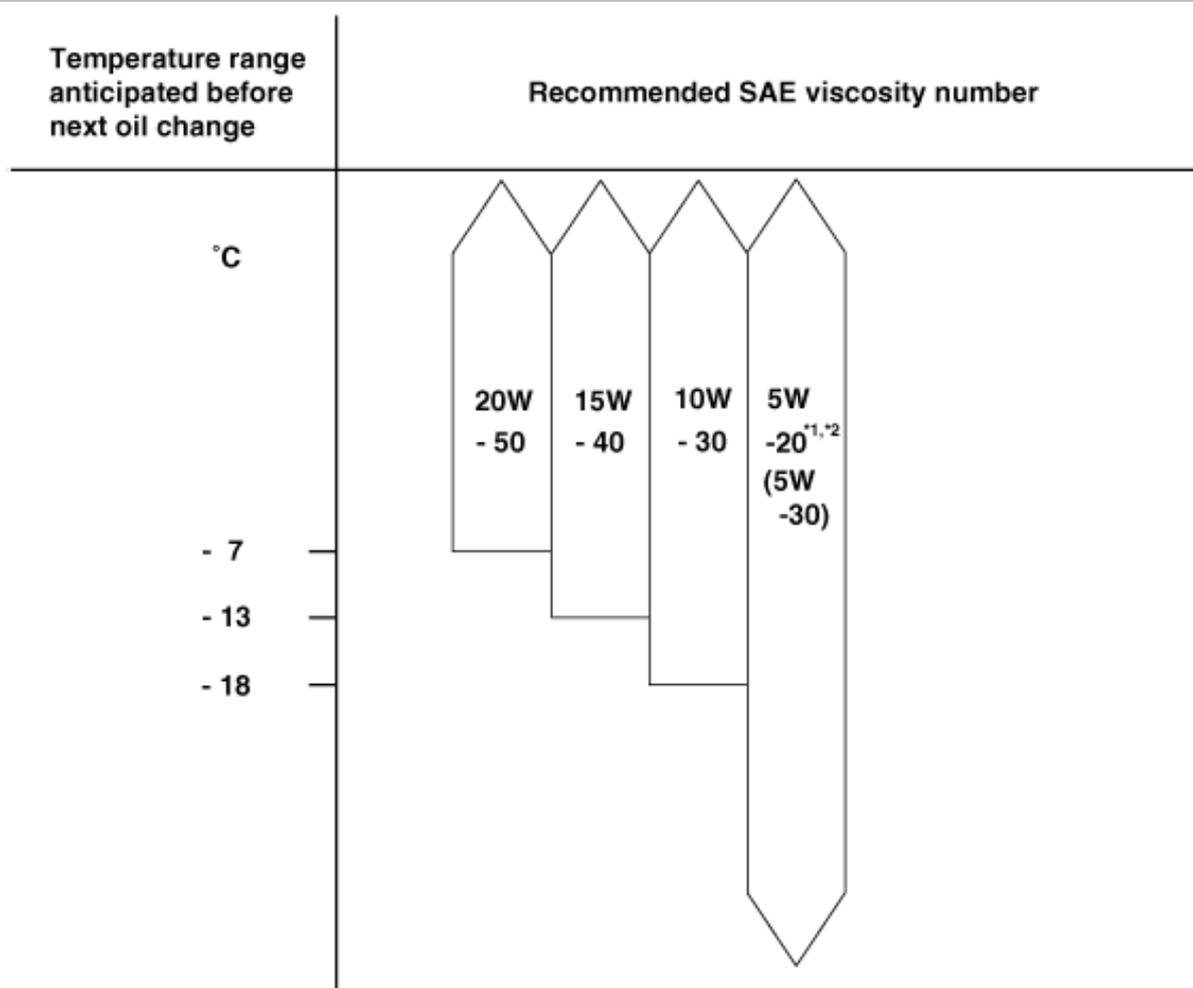
Selection Of Engine Oil

Recommendation (except Middle East) : 5W-20/GF4&SM (If not available, refer to the recommended API or ILSAC classification)

API classification: SL, SM or above

ILSAC classification : GF3, GF4 or above

SAE viscosity grade : Refer to the recommended SAE viscosity number



***1 If 5W-20 / GF4 engine oil is not available, 5W-30 or secondary recommended engine oil for corresponding temperature range can be used.**

***2 In Middle East, do not use the engine oil of viscosity grade SAE 5W-20.**

NOTE

For best performance and maximum protection of all types of operation, select only those lubricants which :

1. Satisfy the requirement of the API or ILSAC classification.
2. Have proper SAE grade number for expected ambient temperature range.
3. Lubricants that do not have both an SAE grade number and API or ILSAC service classification on the container should not be used.