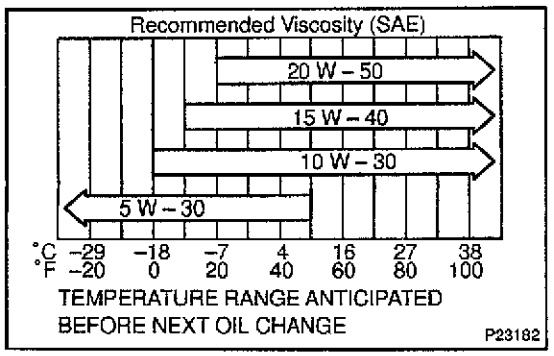


OIL AND FILTER

LU03V–01

INSPECTION

1. CHECK ENGINE OIL QUALITY

Check the oil for deterioration, entry of water, discoloring or thinning.

If the quality is visibly poor, replace the oil.

Oil grade:

API grade SH Energy–Conserving II or SJ Energy–Conserving or ILSAC multigrade engine oil. Recommended viscosity is as shown in the illustration.

2. CHECK ENGINE OIL LEVEL

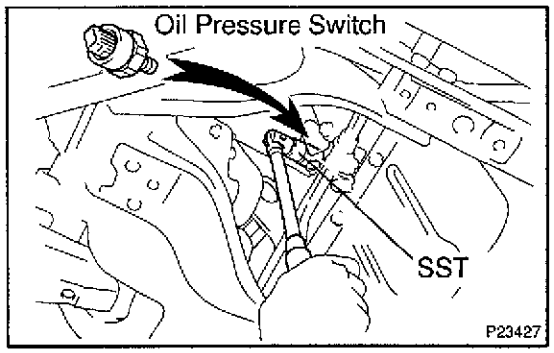
After warning up the engine and then 5 mnutes after the engine stop, oil level should be between "L" and "F" of the dipstick.

If low, check for leakage and add oil up to "F" mark.

NOTICE:

- **Do not fill with engine oil above the "F" mark.**
- **When inserting the dipstick, insert the curved tip of the dipstick facing the same direction as the curve of the guide.**
- **If the dipstick gets caught while inserting it, do not force it in. Reconfirm the direction of the dipstick.**

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3. REMOVE OIL PRESSURE SWITCH

Using SST, remove the oil pressure switch.

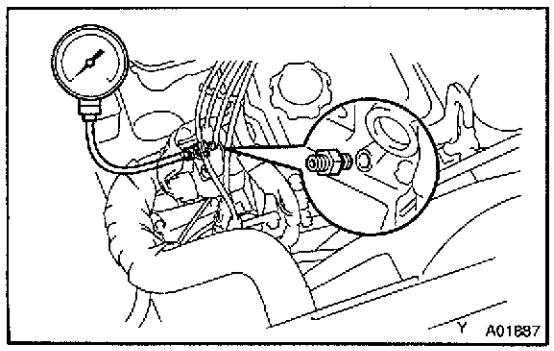
SST 09816–30010

4. INSTALL OIL PRESSURE GAUGE

Install an oil pressure gauge to an adaptor.

5. WARM UP ENGINE

Allow the engine to warm up to normal operating temperature.



6. INSPECT OIL PRESSURE

Oil pressure:

At idle

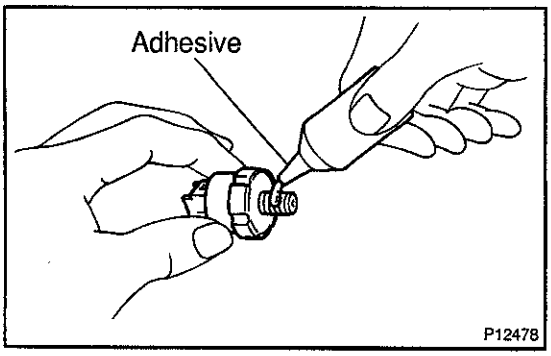
29 kPa (0.3 kgf/cm^2, 4.3 psi) or more

At 3,000 rpm

245 – 490 kPa (2.5 – 5.0 kgf/cm^2, 36 – 71 psi)

7. REMOVE OIL PRESSURE GAUGE

8. REINSTALL OIL PRESSURE SWITCH



(a) Apply adhesive to 2 or 3 threads of the oil pressure switch.
Adhesive:
Part No. 08833–00080, THREE BOND 1344, LOCTITE 242 or equivalent
(b) Using SST, install the oil pressure switch.
SST 09816–30010

9. START ENGINE AND CHECK FOR LEAKS

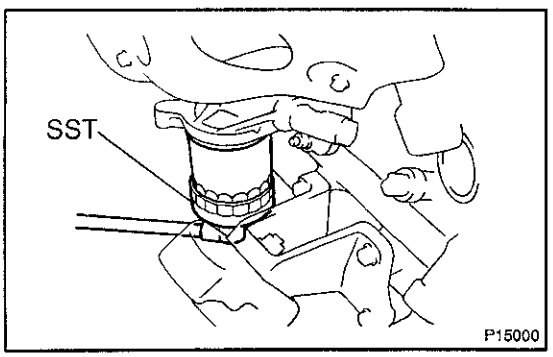
10. OIL AND FILTER REPLACEMENT

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.**
- **Care should be taken, therefore, when changing engine, oil to minimize the frequency and length of time your skin is exposed to used engine oil. Protective clothing and gloves that cannot be penetrated by oil should be worn. The skin should be thoroughly washed 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 filters must be disposed of only at designated disposal sites.**

11. DRAIN ENGINE OIL

(a) Remove the oil filler cap.
(b) Remove the oil drain plug, and drain the oil into a container.



12. REPLACE OIL FILTER

(a) Using SST, remove the oil filter.
SST 09228–07501
(b) Check and clean the oil filter installation surface.
(c) Apply clean engine oil to the gasket of a new oil filter.
(d) Lightly screw the oil filter into place, and tighten it until the gasket contacts the seat.
(e) Using SST, tighten it an additional 3/4 turn.
SST 09228–07501

13. REFILL WITH ENGINE OIL

(a) Clean and install the oil drain plug with a new gasket.
Torque:37 N·m (375 kgf·cm, 27 ft·lbf)

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(b) Fill with fresh engine oil.

Oil capacity
2WD:
Dry fill
5.1 liters (5.4 US qts, 4.5 Imp. qts)
Drain and refill
w/ Oil filter change
4.7 liters (5.0 US qts, 4.1 Imp. qts)
w/o Oil filter change
4.0 liters (4.2 US qts, 3.5 Imp. qts)
4WD:
Dry fill
6.3 liters (6.7 US qts, 5.5 Imp. qts)
Drain and refill
w/ Oil filter change
6.0 liters (6.3 US qts, 5.3 Imp. qts)
w/o Oil filter change
5.3 liters (5.6 US qts, 4.7 Imp. qts)

(c) Reinstall the oil filler cap.

14. **START ENGINE AND CHECK FOR LEAKS**
15. **RECHECK ENGINE OIL LEVEL**