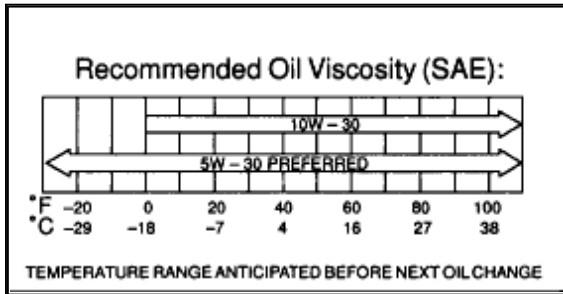


Testing and Inspection

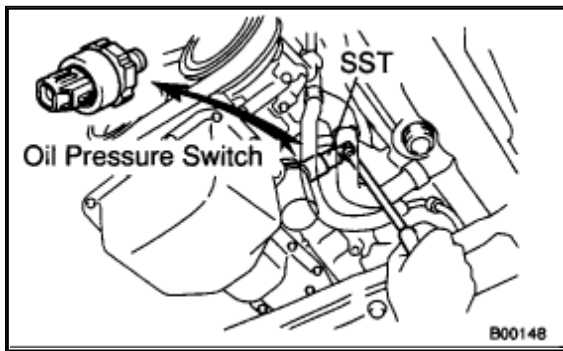
INSPECTION



ZOOM

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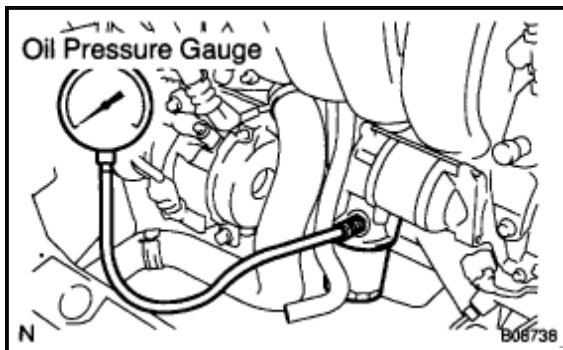
1. CHECK ENGINE OIL QUALITY Check the oil for deterioration, entry of water, discoloring or thinning. If the quality is visibly poor, replace the oil. Oil grade: **API grade or SJ, Energy-Conserving or ILSAC multi-grade engine oil** is recommended. **SAE 5W-30** is the best choice for your vehicle, for good fuel economy, and good starting in cold weather.
2. CHECK 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 on the dipstick. If low, check for leakage and add oil up to the "F" mark. **NOTICE:** Do not fill with engine oil above the "F" mark.
3. REMOVE OIL PRESSURE SWITCH, AND INSTALL OIL PRESSURE GAUGE



ZOOM

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- a. Using Special Service Tool (SST) , remove the oil pressure switch (SST) 09816-30010



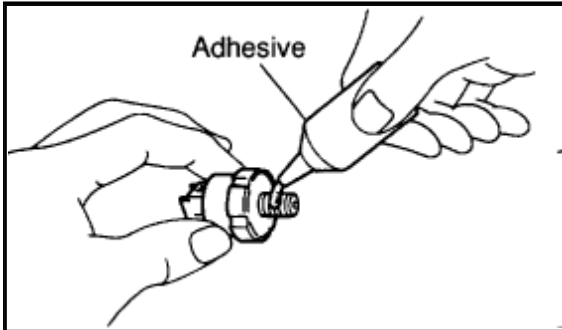
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- b. Install the oil pressure gauge.

4. WARM UP ENGINE Allow the engine to warm up to normal operating temperature.
5. CHECK OIL PRESSURE Oil pressure: At [idle speed](#)

1ZZ-FE: **29 kPa (0.3 kgf/cm², 4.3 psi)** or more
2ZZ-GE: **39.2 kPa (0.4 kgf/cm², 5.7 psi)** or more
At 3,000 rpm
1ZZ-FE: **294 - 539 kPa (3.0 - 5.5 kgf/cm², 43 - 78 psi)**



ZOOM

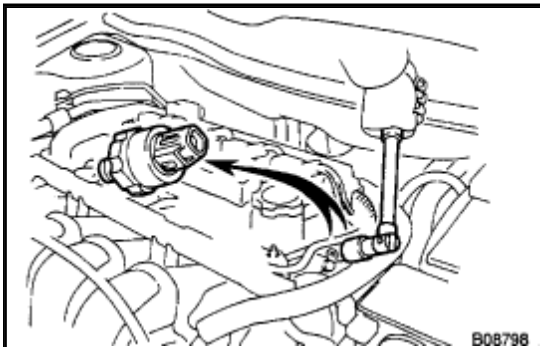
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6. REMOVE OIL PRESSURE GAUGE AND REINSTALL OIL PRESSURE SWITCH

- a. Remove the oil pressure gauge.
- b. Apply adhesive to 2 or 3 threads of the oil pressure switch. Adhesive: Part No. 08833-00080, THREE BOND 1344, LOCTITE 242 or equivalent
- c. Using SST, install the oil pressure switch. SST 09816-30010 Torque: **13 Nm (130 kgf-cm, 9 ft. lbs.)**

7. START ENGINE AND CHECK FOR LEAKS

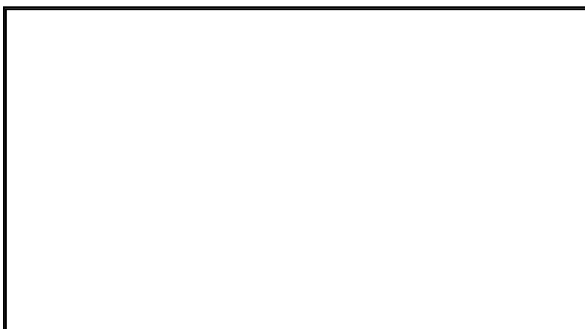
8. 2ZZ-GE: REMOVE OIL PRESSURE SWITCH OF OIL CONTROL VALVE, AND INSTALL OIL PRESSURE GAUGE



ZOOM

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- a. Using SST, remove the oil pressure switch. SST 09816-30010



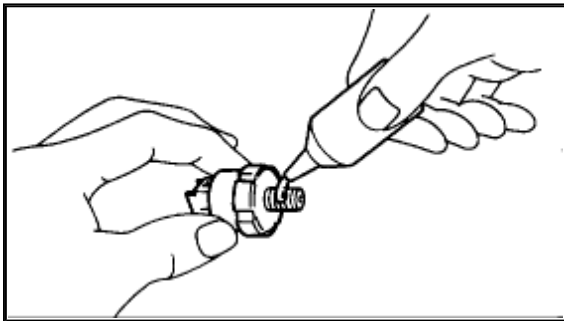


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b. Install the oil pressure gauge.

9. 2ZZ-GE: WARM UP ENGINE Allow the engine to warm up to normal operating temperature.
10. 2ZZ-GE: CHECK OIL PRESSURE for VVTL Oil pressure: At idle speed: **39.2 kPa (0.4 kgf/cm², 5.7 psi)**



ZOOM

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11. 2ZZ-GE: REMOVE OIL PRESSURE GAUGE AND REINSTALL OIL PRESSURE SWITCH OF OIL CONTROL VALVE
 - a. Remove the oil pressure gauge.
 - b. Apply adhesive to 2 or 3 threads of the oil pressure switch. Adhesive: Part No. 08833-00080, THREE BOND 1344, LOCTITE 242 or equivalent
 - c. Using SST, install the oil pressure switch. SST 09816-30010 Torque: **13 Nm (130 kgf-cm, 9 ft. lbs.)**
12. START ENGINE AND CHECK FOR LEAKS