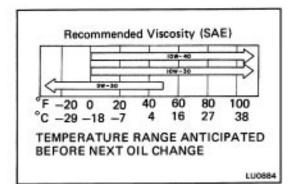
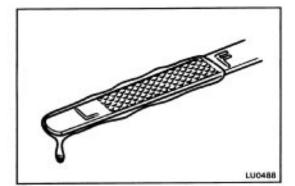
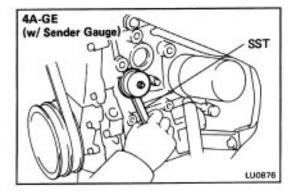
Problem	Possible cause	Remedy	Page
Oil leakage	Cylinder head, cylinder block or oil pump	Repair as necessary	
	body damaged or cracked		
	Oil seal faulty	Replace oil seal	EM-148
	Gasket faulty	Replace gasket	
Low oil	Oil leakage	Repair as necessary	
pressure	Relief valve faulty	Repair relief valve	LU–12, LU–14
	Oil pump faulty	Repair oil pump	LU–9
	Poor quality engine oil	Replace engine oil	LU–6
	Crankshaft bearing faulty	Replace bearing	EM-137
	Connecting rod bearing faulty	Replace bearing	EM-134
	Oil filter clogged	Replace oil filter	LU–7
High oil pressure	Relief valve faulty	Repair relief valve	LU–12, LU–14

TROUBLESHOOTING







OIL PRESSURE CHECK

1. CHECK ENGINE OIL QUALITY

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

If the quality is poor, replace the oil.

Oil grade : API grade SG.

Determine the viscosity for your climate. Recommended viscosity is as shown. Using multigrade and fuel–efficient engine oil is recommended.

2. CHECK ENGINE OIL LEVEL

The 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.

3. (with A/C)

REMOVE A/C, DRIVE BELT, COMPRESSOR AND BRACKET

4. (4A-GE w/ PS)

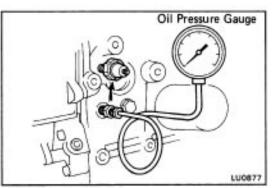
REMOVE PS, DRIVE BELT, IDLER PULLEY AND PUMP BRACKET

5. (4A–FE)

REMOVE DRIVE BELT, ALTERNATOR AND BRACKET

6. REMOVE OIL PRESSURE SWITCH OR SENDER GAUGE AND INSTALL OIL PRESSURE GAUGE

HINT: Use SST if sender gauge is installed. SST 09027–12140



7. (4A–FE)

INSTALL BRACKET, ALTERNATOR AND DRIVE BELT

8. START ENGINE

Start the engine and warm it up to normal operating temperature.

9. MEASURE OIL PRESSURE

Oil pressure:

At idle 0.3 kg/cm² (4.3 psi, 29 kPa) or more At 3,000 rpm 2.5 – 5.0 kg/cm² (36 – 71 psi, 245 – 490 kPa)

10. REMOVE OIL PRESSURE GAUGE AND REINSTALL OIL PRESSURE SWITCH OR SENDER GAUGE

Apply adhesive to two or three threads.

Adhesive: Pant No.08833–00080, THREE BOND 1344, LOCTITE 242 or equivalent

11. (4A-GE w/ PS)

REINSTALL PS PUMP BRACKET, IDLER PULLEY AND DRIVE BELT

72. (with A/C)

REINSTALL A/C COMPRESSOR BRACKET, COMPRES-SOR AND DRIVE BELT

13. ADJUST DRIVE BELTS

4A–FE (See page EM–40)

4A–GE (See page EM–52)

74. START ENGINE AND CHECK FOR LEAKS

REPLACEMENT OF ENGINE OIL AND OIL FILTER

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.

Adequate means of skin protection and washing facilities should be provided.

- 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 waterless hand cleaner, to remove any used engine oil. Do not use gasoline, thinners, or solvents.
- In order to preserve the environment, used oil must be disposed of only at designated disposal sites.

1. DRAIN ENGINE OIL

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

