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GENERAL INFORMATION

121-3001-0045

The lubrication method is a fully force-fed, full-flow filtration type. The cil pump is a froction type which is directly required to the crankshaft.

ENGINE OILS

Health Warning

Prolonged and repealed contact with mineral ail will result in the removal of natural fats from the skin, leading to dryness, irritation and dermatitis.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 confaminants which may cause akin cancer. Adequate means of skin protection and washing facilities must be provided.

Recommended Precautions

The most effective procaution is to adapt working practices which prevent as far as practicable, the risk of skin contact with mineral oils. For example, Use enclosed systems for trandling used engineoit and degrease components, where practicable, before handling them

Other precautions:

- Avaid protoeged and repeated contact with ails, particularly used engine oils
- Wear protective clothing, including impervious gloves where practicable.
- Avoid contaminating digities. particularly underpants, with oil.
- Do not put only raigs in pockets, the use of overalls without pockets will avoid this.
 - Do not wear freavity soiled clothing and oil-impropriated foot-waar. Overalls must be cleaned regularly and kept separate from personal clothing

- Where there is a risk of eye contact, eye protection should be worn. For example: chemical dopoles or tace shields. In applican, an eye wash facility should be provided.
- Obtain First Aid treatment invited ately for open cuts and wounds. Wash regularly with soap and water to ensure
- all of is removed, aspecially before meals (skin) cleansers and mail trushes will help. After cleaning, the application of proparations containing famolin to replace the matural skincils is advised.
 - Do not use gasoline, kerosina, diesel lueli, gas cil, thinners or solvents for dearing skin.
- Lise trainer creams, applying them before each work period, to help the reinoval of all from the skin after work.
- It skin disorders develop, obtain medical advice. meediately.

LUBRICANTS

rd =500 e**01 M**

lleriis		Engine pir (API dassilipation)	Guamhy do ¹¹ (qls.)
O# Aller		Su or higher	09 (9.22)
Total quantity	1.5L engine	•	3.3 (3.5)
	I.EL ençire		5.9 (4.0)

EOLOS carallegion mais



ENGINE OIL

Caution

Never use nondetergent or straight mineral oil.

Oil Identification Symbol

Use only engine his displaying the FO1GS certification mark on the container.

ENGINE LUBRICATION - On-vehicle Service

MEDIAGRADA

Il those ofs are not available, an API dass/leation SJ EC. or SWCD EC can be used.

Lubricants Suedial Tool/

SPECIAL YOOL

13-00060000

Tro	Tool number acquaine	Sugersession	Application
FR	MH901396 OThttp://www.ch		Pernoval and distallation of engine or fitter (When using the crititle) of MO(25737)

ON-VEHICLE SERVICE

171000000000

ENGINE OIL INSPECTION

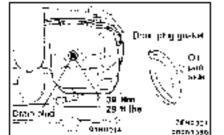
- Pull out the oil dipstick slowly and check that the oil level.
 - is within the marks on the oil dicatick 2. Check that the oil is not excessively ditty that there is ne coolant or gasome mixed in, and that it has sufficient. viscosity.

ENGINE OIL REPLACEMENT.

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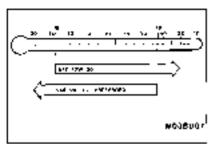
- 1. Start the engine and allow it to warm up until the temperature of the coolant reaches 80 °C (176°F) to 90 °C (194 F). Remove the engine of filler cap.
- Remove the drain glug to drain oil.

Caution: Use care as oil could be hot.



Install a new drain plug gasket so that it faces in the direction shown in the illustration, and their bighten the drain plug to the specified torque. NOTE

histall the drain plug gasket so it faces in the direction. shown in the itustration



Refill the specified quantity of oil.

Specified Engine Oil (API class/Nostion) SJ or higher Total quantity (includes volume inside oil liller):

<1.5L engine> 3.3 dm3 (3.5 ata) <1.8L engine> 3.8 dm3 (4.0 qts.)

- 6. Install the engine oil filler cap.
- Check of level.

OIL FILTER REPLACEMENT

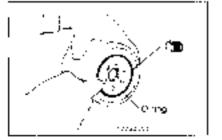
18100110927

- Start the engine and allow if to warm up unduling. temperature of the coplant reaches 80, C (176, F) to 90, C. (194 F)
- 2. Plemove the engine oil filler cap. Remove the drain plug to drain oil.

Caution

Use care as oil could be hot.

- Use the following tools to remove the engine oil fifter. from the underside of the vehicle.
 - MB991398 or equivalent (When using the oil When
 - of MO135737). Commercial toul (When using the oil filter of MD325714)
- Clean the fitter bracket side mounting surface and ensure. the old O-ring has been removed.



- Apply a small amount of engine oil in the Orang of the new or Alter.
 - Install the engine oil fifter.

NOTE

Tightering targue:

When using the oil filter of MD135737, 14 Nm.

(10 lt.los.) When using the oil filter of MD325714: 16 Nm.

- 712 Rilbert
- Install the draw plug and retililanging oil. (Refer to Engine) Of Replacement on P12-31. Flace the engine a few times, and check to be sure that
 - no engine oil leaks from the installation section of the uil lillé.