

## 1.2-2 Use of Heavy Fuel Oil

## (1) Purifying of Heavy Fuel Oil

As mentioned above, engines that have been built to run primarily on heavy fuels will be configured with special components to insure satisfactory operation. In addition, however, external fuel treatment (specification and pre-heating) will also be required.

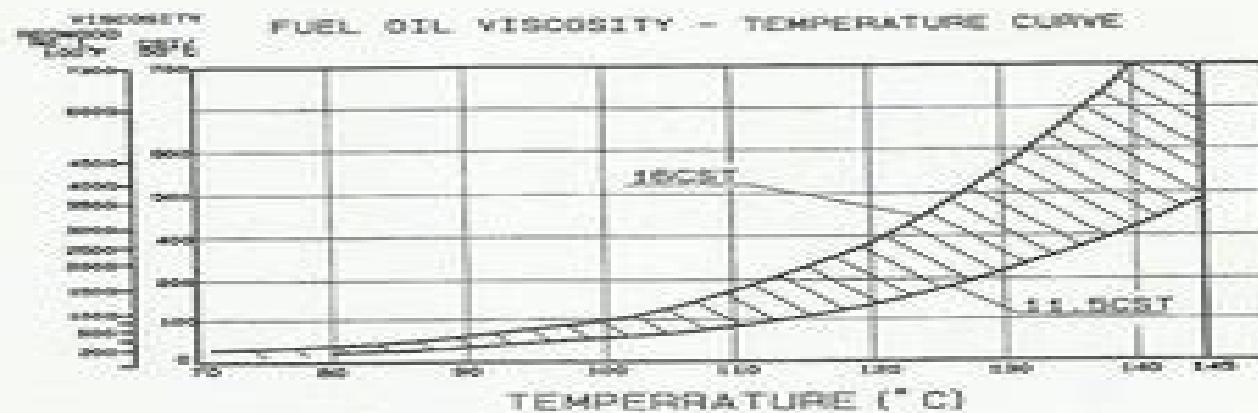
A purifier must be used to remove water and solids from the fuel oil before it enters the fuel pump. Excess moisture not only reduces the calorific value (heat content) of the fuel, but can cause rust and deposit problems on internal engine components.

## (2) Temperature of Heavy Fuel Oil

Suitable atomization of fuel oil is essential for proper operation of the fuel injection pump and for complete combustion of the fuel/air charge in the cylinder.

The viscosity of fuel oil as it enters the engine fuel pump should be between 11.5-16 cSt at 50 °C (60-75 Redwood No. 3). Viscosity of this level can be obtained if heavy fuel oil is heated before it enters the fuel injection pump, as indicated in the Viscosity-Temperature Chart shown in Figure 1.2-1.

**WARNING:** Fuel oil temperature must not exceed 165 °C.



# Niigata Engine Maintenance Manual Rpm

**Clifford Lane**

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**Zosen** ,1972    **Technical progress in shipbuilding and marine engineering in Japan** ,1962    **Diesel Progress**

**North American** ,1986    *Diesel Railway Traction* ,1960    **Moody's International Manual** ,1993    Railway

Machinery ,1972    *Contractors and Engineers Magazine* ,1967    **Australian Fisheries** ,1975    Jane's All the World's

Aircraft ,2007    **The Far Eastern Review** ,1930    *Hansa* ,1976    **Toyota 2f Engine Repair Manual** Toyota

Corporation,2006-01-01 Factory engine repair manual for the iconic 2F petrol gasoline engine as fitted to the Toyota 40 55 and 60 Series four wheel drive vehicles This repair manual has been prepared to provide information covering general repair for 2F Gasoline engine as fitted to the TOYOTA LAND CRUISER Per Toyota Motor Sales Co LTD The Toyota 2F engine was one of the F series of OHV inline 6 cylinder engines produced by Toyota between 1955 1992 F Series engines are known for their high amount of torque at low RPM massive cast iron blocks and heads and also their high reliability The 2F Engine had one of the longest production runs of any Toyota engine The F Series engines all incorporate overhead valves actuated by pushrods from a gear driven camshaft in the lower portion of the engine The engine was first introduced in the Toyota FJ40 Land Cruiser and in many countries was the only gasoline engine offered in the Landcruiser until 1993 Although it's commonly badged as the Land Cruiser engine it was used in a variety of other large truck applications as well such as in fire trucks and the Toyota FQ15 trucks It was also used in the Crown based Japanese Police Patrol Cars FH26 and FS20 FS50

**Engine Maintenance Manual No. 252B for Model 567B Engines** ,1950    **Engine Maintenance Manual No. 252C**

,1957    *Engine Maintenance Manual No. 252C* General Motors Corporation. Electro-Motive Division,1954    **Diesel**

**Electric Locomotive, 42 Class, Running Maintenance Instruction Manual, Mechanical Equipment** F. P. Heard,1959

*Toro-flow Diesel Engine* General Motors Corporation. GMC Truck & Coach Division,1965    **Operation and**

**Maintenance Manual** ,1985    Engine Maintenance Manual No. 252C General Motors Corporation. Electro-Motive Division,1959

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