**High Pressure Hydraulic Fluid (PEGCOL 113)**

On account of indigenization of large number of hydraulic system equipment, a hydraulic fluid with viscosity index more than 90 and kinematic viscosity of 40 cSt(minimum) at 37.8°C has been developed. The hydraulic fluid is also capable of working in hydraulic chamber at operating pressure of 200 to 300 bars.

DMSRDE, has successfully developed the high pressure hydraulic fluid (PEGCOL 113) with viscosity index of 125 and kinematic viscosity of 47 cSt at 37.8°C. The fluid is also non corrosive to metal parts like mild steel, cast iron, brass, copper, aluminium, etc.600 litres of this hydraulic fluid was tested at 300 bar working pressure for continuous 400 hours in a prototype test rig and the fluid has successfully passed the test. Later user trial of another 600 litres of hydraulic fluid was carried out for continuous 400 hours at 300 bars pressure.

**Use:** The fluid can be used in hydraulic gear system and several engineering machineries such as gear pumps, axial piston pumps, industrial equipment, etc.