



## **SCOPE Denim 9000 Global Extra Super Diesel – API CI4**

SCOPE Denim 9000 lubricant has been formulated with Group I hydro-cracked base oil and advanced additive technology to achieve latest low emission and high performance requirements of US, European and Japanese engine makers. It provides protection against oil thickening, high temperature, sludge build up, oil degradation and corrosion. It provides good shear stability.

### ➤ **Main benefits**

- Advance additive technology provides wear protection and longer oil life.
- Improved engine cleanliness and protection against piston deposits.
- Excellent performance in heavy duty operation.
- Superior oxidation resistance, soot control, thermal stability.
- Easy cold starting and longer drain interval.
- Improve low temperature sludge control in stop and go service.

### ➤ **Application**

SCOPE Denim 9000 is recommended to be used in on and off high way diesel engine are in both two cycle and four cycle engines, extending life between overhaul in high speed/load, pick-up delivery operation.

### ➤ **Specification**

SCOPE Denim 9000 meets and exceeds the requirement of API CI4/CH4/CG4/CF4/CF/SL/SJ, Mercedes Benz 228.1/229.1, Allison C-4, ACEA E7/A3/B4 JASO DH-1, Global DHD-1, Cummins CES 20078, CES 20077, CES 20076, MAN 3275, VOLVO VDS3, MTU-Type 2, CAT ECF1

### **Typical Physical Characteristics**

SAE Viscosity Grades	10W/40	15W/40	20W/50
Viscosity, cSt @ 100 <sup>o</sup> c	14.50	15.00	18.50
Viscosity Index	147	140	128
Pour Point	-36	-30	-27
Flash Point COC	212	220	232
TBN ASTM D 2896	11.00	11.00	11.00
Apparent Viscosity - Cp	6500 -25 <sup>o</sup> c	6200 -20 <sup>o</sup> c	7800 -15 <sup>o</sup> c