



Diesel Engine Oil

ENVIROLUBE

HD DIESEL 15W-40

Application

EnviroLube Heavy Duty Diesel is an advanced, versatile SAE 15W-40 heavy duty diesel engine oil, specially formulated for use in mixed fleet operation, meeting and exceeding the requirements of the latest US, European and Japanese medium to heavy duty 4-Stroke diesel engines.

It is intended for any application calling for CI-4, E7, DHD-1 (or earlier specifications) and is suitable for use in the latest engines manufactured by Caterpillar, Mack, Cummins, Detroit Diesel, Mercedes Benz, IVECO, DAF, Volvo, Scania and MAN, including Euro 3 engines or engines fitted with EGR.

Features

EnviroLube is fortified with double refined base oils to provide superior thermal stability in high power rated applications, on or off road.

It offers rationalisation with the highest levels of protection from wear, bore polish, combustion deposits, bearing corrosion, oil consumption and soot related oil thickening.

Benefits

- ✓ Double refined base oil technology for extended product life, maximising your investment.
- ✓ High thermal stability for severe duty turbo-charged and conventional engines.
- ✓ Control over soot related thickening & protection from piston ring & liner wear and deposits
- ✓ Mid Ash formulation for versatility across US, Japanese and European engines
- ✓ Backwards compatible with older heavy duty engines
- ✓ Manufactured in an ISO 9002 certified facility
- ✓ Double refined base oil conserve vital petroleum resources

| Intended for heavy duty diesel engines |

**Diesel Engine Oil****HD DIESEL 15W-40****Specifications**

EnviroLube Heavy Duty Diesel 15W-40 is recommended where the following performance levels are specified

Diesel : API CI-4 (and superseded levels CF-4, CG-4 and CH-4)
 ACEA E7 (and B3/B4)
 Global DHD-1

Manufacturers : Mack EOM-Plus, Cummins 20078 (and 20071 /72 /76 / 77), Mercedes Benz MB228.3, Volvo VDS-2, VDS-3, MAN 3275, MTU Type 2, CAT ECF-1

Note : Like all diesel engine oils meeting CI-4 & CH-4, the phosphorous level of EnviroLube Heavy Duty exceeds the recommended level for passenger vehicles and may reduce the life of 3-way catalytic converters. While the oil exceeds all passenger vehicle specifications, EnviroOil do not recommend this product as suitable for passenger car application.

Typical Characteristics

Characteristic	Method	Units	Typical Value	Benefit
Viscosity Grade	SAE		15W-40	Provides a wide range of operating viscosity for protection in all climates. Shear stable product means viscosity is maintained for life of lubricant.
Density @ 15.6C	IP160	g/cm ³	0.891	
Viscosity at 100°C	ASTM D445	cSt	15	
Viscosity at 40°C	ASTM D445	cSt	113	
Viscosity Index	ASTM D2270		138	
CCS Viscosity @ -20C	ASTM D5293	cP	5,600	Cold start performance 30% better than SAE recommended level
Phosphorus, ICP or XRF	ICP	%wt	0.12	High level of anti-wear additive
Sulphated Ash	ASTM D84	%wt	1.37	Mid-ash level for application in mixed fleets
Calcium	ICP	%wt	0.34	Detergency/Dispersion for protection against acidic corrosion, soot related thickening, deposit formation and bore polishing
TBN	ASTM D2896	mgKOH/g	11	

Values provided are typical and do not constitute a specification