

PRODUCT INFORMATION

ECOSE™ HORIZON HD

PREMIUM CJ-4 DIESEL ENGINE OIL

ECOSE™ Horizon HD Diesel Engine Oil is formulated to meet or exceed the warranty requirements of most major manufacturers of diesel engines. **ECOSE™ Horizon HD** meets or exceeds most OEM specifications and is formally approved for Mack EO-O Premium Plus, Cummins CES 20081, Detroit Diesel PGOS 93K218, and Volvo VDS-4, and meets or exceeds Caterpillar ECF-3, MB 228.3, ACEA E7, and MTU Type II standards for performance and protection.

APPLICATIONS:

ECOSE™ Horizon HD Diesel Engine Oil can be used with complete confidence in most naturally aspirated or turbo-charged diesel engines as well as exhaust gas recirculated (EGR) engines used in truck or off-highway equipment. It may also be used for manual transmissions and hydraulic systems where motor oil is recommended.

Recommended for equipment requiring:

- API Service Categories: CJ-4, CI-4 PLUS, CI-4/SN, SM
- Caterpillar ECF-3, ECF-2, ECF-1A
- Detroit Diesel (4 Stroke) DDC PGOS, 93K218
- Volvo VDS-4, VDS-3
- Mack EO-O Premium Plus 07
- Diesel engines manufactured by OEMs not listed above, where the OEM specifies API CJ-4 engine oil
- Mercedes Benz 228.3 (SAE 15W-40)
- JASO DH-2 (SAE 15W-40)
- International (Navistar) diesel engines
- ACEA E7 / MTU Type II
- Cummins CES 20081

Typical Properties

SAE Grade		15W-40	10W-30
Product Code	Test Method	531309	531330
API Service		CJ-4, CI-4 PLUS/SN	CJ-4, CI-4 PLUS/SN
API Gravity @ 60°F	ASTM D4052	29.3	30.6
Density, lbs/gal	Calculated	7.32	7.26
Viscosity, cSt @ 40°C	ASTM D445	118.5	81.8
Viscosity, cSt @ 100°C	ASTM D445	15.7	12.2
Viscosity Index	ASTM D2270	141	146`
CCS Viscosity, cP, @ Temp.	ASTM D5293	5,200 @ -20°C	6,200 @ -25°C
Color	ASTM D-1500	L4.0	L4.5
Pour Point, °F	ASTM D5949	-28	-28
Flash Point, COC, °F (°C)	ASTM D92	440(226)	430(221)
TBN	ASTM D2896	9.6	9.5
Sulfated Ash, mass %	ASTM D-874	0.9	0.9

AVAILABILITY:

ECOSE™ Horizon HD Diesel Engine Oils are available throughout Nu-Tier Brands’ marketing area. Your Nu-Tier representative can provide specific information. Need additional information? Call Nu-Tier Brands @ 1-877-771-LUBE(5823) or visit Nu-tierbrands.com.