

PRODUCT INFORMATION

ECOSE™ HORIZON SYNTHETIC BLEND XHD

HIGH PERFORMANCE SYNTHETIC BLEND DIESEL ENGINE OILS

ECOSE™ Horizon Synthetic Blend XHD Diesel Engine Oil is high performance heavy-duty engine oil engineered for use in today's modern turbocharged four-stroke cycle, low emission diesel engines. **ECOSE™ Horizon Synthetic Blend XHD** is formulated with advanced *next generation*, fuel efficient additive technology that meets or exceeds the service requirements of virtually all diesel engine manufactures. They exceed and are certified for the latest **API CK-4** diesel engine oil category and are backward serviceable for use in older on-road and off-road diesel engines.

PERFORMANCE FEATURES:

Shear Stable Formulation – maintains critical film thickness over extensive use promoting extended drains

Next-Generation Additive Technology – improved fuel economy, engine wear protection, excellent oxidation resistance and TBN retention supports long oil life

Synthetic Base Oils- imparts exceptional performance, piston deposit control, turbocharger protection, improved low temperature flow and pumpability when compared to conventional engine oils

Advanced Aeration Control - passes new **Caterpillar** Engine Oil Foam Testing-proven to reduce air bubbles for improved performance in severe duty off-road equipment and hydraulic valve-train actuation

APPLICATIONS:

ECOSE™ Horizon Synthetic Blend XHD Engine Oils are formulated for most modern on-highway low emission engines as well as older on-highway diesel engines. **ECOSE™ Horizon Synthetic Blend XHD** is an excellent choice for construction equipment, agriculture, marine, earthmoving and mining applications. They are backward serviceable for superior performance in previous model year on-road and off-road diesel engines requiring older API Service Category oils. For applications not using Ultra-Low Sulfur Diesel (ULSD), consult the engine manufacture for recommended service interval.

ECOSE™ Horizon Synthetic Blend XHD Engine Oil is recommended for applications calling for:

- **API Service Categories** API CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4
- **ACEA** E9
- **Caterpillar** ECF-3, ECF-2
- **Cummins** CES 20086, 81
- **Detroit Diesel (DFS)** 93K222, 93K218
- **Volvo** VDS-4.5, VDS-4
- **Mack** EOS 4.5, EO-0
- **Renault** VI RLD-4/JASO DH-2
- **International (Navistar) diesel engines**
- **Mercedes** 228.31
- **MTU** MTL 5044 Type 2.1
- **Diesel engines manufactured by OEMs not listed above, where the OEM specifies API CK-4 or CJ-4 engine oil**

AVAILABILITY:

ECOSE™ Horizon Synthetic Blend XHD is available throughout Nu-Tier Brands' marketing area. Your Nu-Tier representative or can provide specific information. Need additional information? Call **Nu-Tier Brands** @ 1-877-771-LUBE(5823) or visit Nu-tierbrands.com.

ECOSE™ HORIZON SYNTHETIC BLEND XHD

Synthetic Blend Diesel Engine Oils



Typical Properties

SAE Grade	Test Method	10W-30	15W-40
Product Code		531342	531343
API Service		CK-4	CK-4
Specific Gravity @ 60°F		0.870	0.875
Density, lbs/gal @ 60°F		7.25	7.29
Viscosity, cSt @ 40°C	ASTM D-445	80.5	115.0
Viscosity, cSt @ 100°C	ASTM D-445	12.0	15.5
Viscosity Index	ASTM D-2270	143	142
CCS Viscosity, cP, at Temperature	ASTM D-5293	5,350 @ -25°C	4,200 @ -20°C
Color	ASTM D-1500	L3.0	L3.5
Pour Point, °F	ASTM D-5949	-38	-33
Flash Point, COC, °F (°C)	ASTM D-92	435 (224)	450 (232)
TBN	ASTM D-974	10.0	10.0
Sulfated Ash, mass %	ASTM D-874	1.0	1.0

Note: Values shown are typical values only and do not constitute a specification and may vary within modest ranges. Always confirm with the original manufacturer's recommendation for proper equipment operating requirements.