

# Cat® DEO-ULS™

API CK-4 Diesel Engine Oil

SAE 15W-40 and 10W-30



## Recommended Use

Cat® DEO-ULS™ is an advanced synthetic blend uniquely formulated and optimized to provide the highest level of protection and performance in a wide variety of engine applications, including those requiring aftertreatment systems:

- All Caterpillar diesel engines except 3600 series engine models\*
- Ideal for mixed fleets and on-highway heavy duty trucks
- Meets global requirements for engines with aftertreatment devices requiring API CK-4 diesel engine oil
- Exceeds the performance requirements of API CK-4 and is backwards compatible with prior API categories

\* Always follow the fluid recommendations in your OMM. Contact your dealer for additional information.

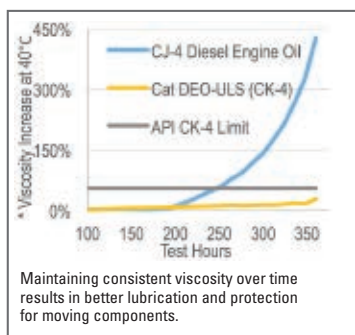
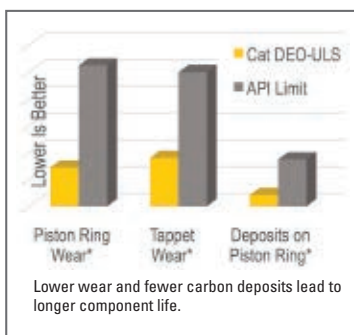
## Discover the Difference

Cat DEO-ULS is formulated using high quality, extensively hydroprocessed base stock oils and optimized additive package. It provides optimal performance, durability and engine life.

- **Minimized Engine Deposits**—Improved oxidation and thermal stability minimizes engine deposits and provides consistent protection throughout the oil drain interval.
- **Reduced Aeration**—Reduced aeration results in improved protection against oil breakdown, cavitation and corrosion.
- **Improved Shear Properties**—Improved shear properties allow the oil to maintain a consistent viscosity under high loads, providing better lubrication and protection for moving components.
- **Longer Protection**—Specially designed additives and superior base stock deliver optimal engine protection and durability while supporting consistent emissions performance.



## Cat DEO-ULS Outperforms API CK-4 Requirements



\* Industry Standard Testing: Piston Ring Wear-Mack T12 Test, Tappet Wear-Cummins ISB Test, Deposits on Piston Ring-Caterpillar C13 Test, Viscosity Increase-Volvo T13 Test

Typical Characteristics*		
SAE Viscosity Grade	15W-40	10W-30
Flash Point, °C (ASTM D92)	225	218
Pour Point, °C (ASTM D97)	-33	-36
Viscosity		
cSt @40°C (ASTM D445)	109	81.6
cSt @100°C (ASTM D445)	14.1	12.0
HTHS @ 150°C, cP (ASTM D4683)	4.1	3.6
Viscosity Index (ASTM D2270)	130	142
Phosphorous, % wt. (ASTM D4951)	0.10	0.10
Sulfur, % wt. (ASTM D2622)	0.24	0.24
Zinc, % wt. (ASTM D4951)	0.12	0.12
Sulfated Ash, % wt. (ASTM D874)	0.90	0.90
Volatility (ASTM D5800)	9.5	11.3
TBN (ASTM D4739)	8.6	8.7
Density @ 15.6°C (ASTM)	0.875	0.868

### Meets or exceeds the performance requirements of:

API CK-4, CJ-4, CI-4 PLUS, CI-4 and CH-4  
Caterpillar ECF-3  
ACEA, E7-16, E9-16

### Can be used in engines requiring:

Cummins CES 20081  
Detroit Diesel 93K218  
JASO DH-2-17  
Mack EOS-4.5/EO-0 Premium Plus  
Volvo VDS-4.5/VDS-4/VDS-3

\*The values shown are typical values and should not be used as quality control parameters to either accept or reject product. Specifications are subject to change without notice.

## Health and Safety

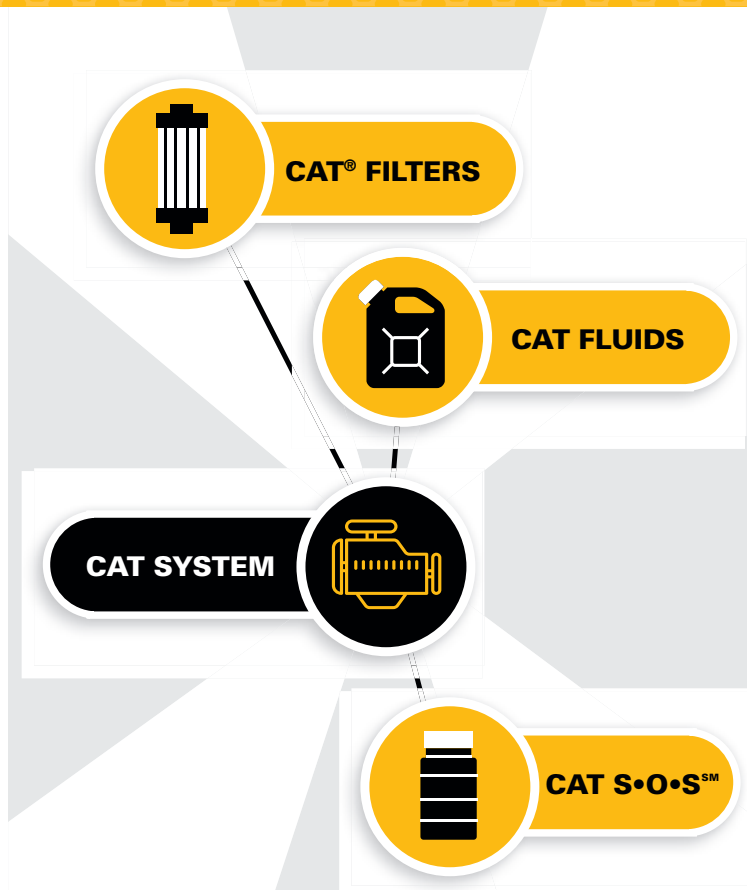
Always read and understand the Safety Data Sheet (SDS) before using this product.

For a copy of the SDS, visit us on the web at:  
[www.catmsds.com](http://www.catmsds.com)

# LET'S DO THE WORK.™

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Cat filters and fluids are designed alongside Cat equipment ensuring optimal performance and customer value.

Take A Closer Look [cat.com/filtersandfluids](http://cat.com/filtersandfluids)

## CAT DEALERS DEFINE WORLD-CLASS PRODUCT SUPPORT

We offer you the right parts and service solutions, when and where you need them.

The Cat dealer network of highly trained experts keeps your entire fleet up and running to maximize your equipment investment.



# CAT®