



# CAT® DEO-ULS™

API CK-4 DIESEL ENGINE OIL

SAE 15W-40, SAE 10W-30

## RECOMMENDED USE

Cat® DEO-ULS™ is an advanced synthetic blend uniquely formulated to provide 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

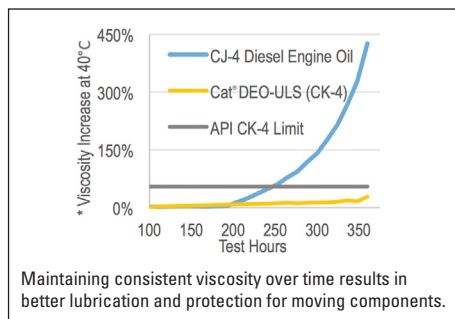
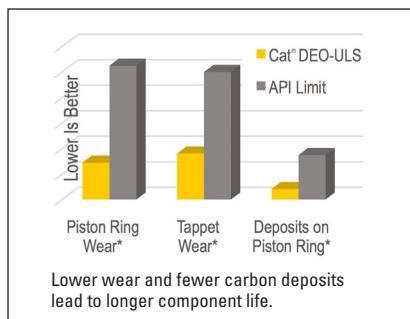
Cat DEO-ULS is formulated using high quality, extensively hydroprocessed base stock oils and additive package to help enhance performance, durability, and engine life.

- Reduced Engine Deposits – Improved oxidation and thermal stability minimizes engine deposits and helps provide 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 enhanced engine protection and durability while supporting consistent emissions performance.



# CAT DEO-ULS

## 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:

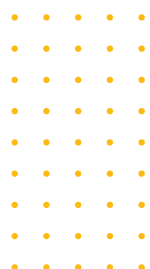
- API CK-4, CJ-4, CI-4 PLUS, CI-4, and CH-4
- Caterpillar ECF-3
- ACEA, E7-16, E9-16

### Can be used in engines requiring:

- Cummins CES 20081
- Detroit Diesel 93K218
- JASO DH-2-17
- Mack EOS-4.5/EO-O 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.

## CAT DEALERS DEFINE WORLD-CLASS PRODUCT SUPPORT.

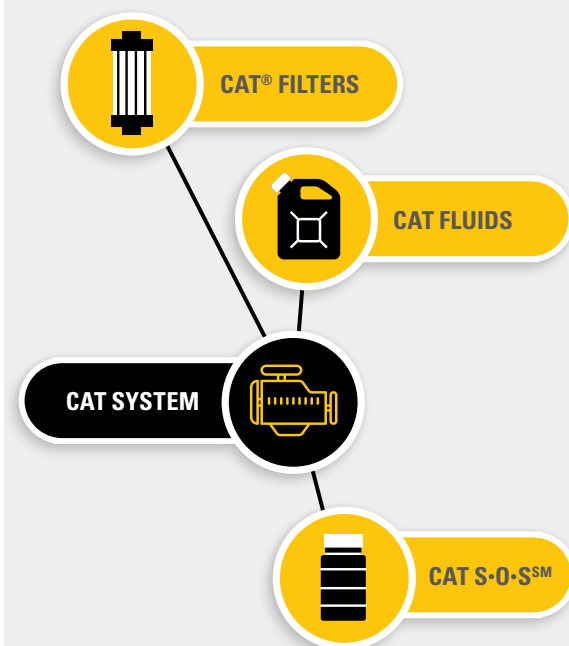


We offer you the right parts and service solutions, when and where you need them.

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

PEHJ0159-11  
www.cat.com

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Cat filters and fluids are designed alongside Cat equipment, helping ensure optimal performance and customer value.

## HEALTH AND SAFETY

Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin, or respiratory irritation. Always observe good hygiene measures. 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).

