

# DELO® 400 XSP SAE 5W-30

## Product Information Sheet



Delo® 400 XSP SAE 5W-30 with ISOSYN® ADVANCED TECHNOLOGY is a mixed-fleet engine oil recommended for naturally aspirated and turbocharged four-stroke diesel engines and four-stroke gasoline engines in which the API CK-4 or API SN service categories and SAE 5W-30 viscosity grade are recommended.



ISOSYN ADVANCED TECHNOLOGY benefits customers by helping to provide:

- Up to 35% improved oil oxidation control\*
- Up to 69% improved wear protection\*
- Up to 46% improved piston deposit control\*

\*Results will vary based on the Delo 400 product, operating conditions, and engine types. Always follow OEM recommendations and utilize used oil analysis testing when extending oil drain intervals. Improvement relative to industry standard engine test limits

### APPLICATIONS:

- For on-highway diesel applications, including 2017 greenhouse gas (GHG 17) compliant diesel engines with lower CO<sub>2</sub> emissions, and 2010 compliant low emission diesel engines with Selective Catalytic Reduction (SCR), Diesel Particulate Filter (DPF) and Exhaust Gas Recirculation (EGR) systems.
- Most older on-highway diesel engines in conditions when SAE 5W-30 viscosity grade is recommended.
- This product is API SN and will meet the latest gasoline qualifications providing for one oil in a mixed vocational, short haul or delivery fleet.
- Caterpillar diesel engines in off-highway or construction applications in conditions when SAE 5W-30 viscosity grade is recommended.

### SPECIFICATIONS and OEM CLAIMS:

- |  |                      |                    |
|--|----------------------|--------------------|
| • ACEA Oil Sequences<br>E6, E7, E9                                   | • Cummins CES 20086  | • MB 228.51        |
| • API Service Categories<br>CK-4, CJ-4, CH-4,<br>CI-4, CI-4 PLUS, SN | • DEUTZ DQC IV-10 LA | • MB 228.31        |
| • Caterpillar ECF-3  | • DDC DFS93K222      | • MTU Category 3.1 |
|  | • JASO DH-2          | • Renault RLD-4    |
|  | • Mack EOS 4.5       | • Volvo VDS 4.5    |

\*\*Based on Volvo D12D engine test



Up to 2% improved fuel efficiency versus API CJ-4 SAE 15W-40\*\*



Very low temperature cold cranking performance

# Delo®

Let's go further.®

# 480,000 MILES, EXTENDED DRAIN INTERVALS

In this field trial Delo® 400 XSP SAE 5W-30 delivered fuel efficiency gains and extended drains for Ozark Motor Lines, minimizing downtime and reducing operating costs without compromising reliability.

Ozark Motor Lines is an over the road freight hauler located out of Memphis, TN. They haul various dry goods freight throughout the United States averaging 100,000 miles per truck per year with uptime and on-time deliveries being critical to operating profitably in their business.

**“We cannot afford downtime on our equipment, if we are late, we haul for free,” says Donnie Caldwell, Chief Operating Officer - Ozark Motor Lines.**

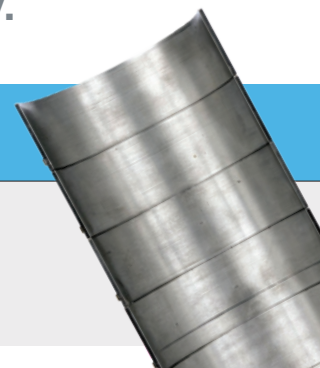


Ozark Motor Lines has been a long term Chevron Delo customer and has continually looked to improve their operations with new generation engine oils. Since 2011 they have moved to newer Chevron Delo products looking for improved fuel efficiency and long drain performance with each Delo 400 product upgrade. With Chevron's development of products to meet the new diesel engine oil categories, Ozark Motor Lines started field testing the new Delo 400 XSP SAE 5W-30 in 2015 to see if they could maximize fluid life and fuel efficiency performance for their fleet and operations.

After 480,000+ miles of testing, Ozark Motor Lines wanted to look at how well their key engine components were being protected after extended oil drain intervals with the new Delo 400 XSP SAE 5W-30. A full engine teardown was conducted at their location on one of their Detroit DD15 engines and the results were impressive – the key engine components were well protected and showed limited wear and excellent cleanliness.

## Connecting Rod Bearings

Connecting Rod Bearings are in excellent condition showing minimal wear



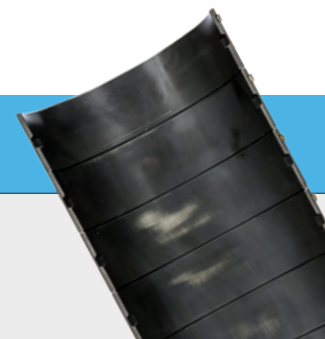
## Pistons

Pistons are clean with minimal deposit buildup on the crown land or ring land area



## Main Bearings

Bearings are in fantastic condition with no visible overlay removal



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**Delo®**  
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