DELO® 400 ZFA SAE 10W-30

Product Information Sheet

Delo® 400 ZFA SAE 10W-30 with ISOSYN® ADVANCED TECHNOLOGY is a premium synthetic blend fuel economy and mixed fleet engine oil recommended for naturally aspirated and turbocharged four-stroke diesel engines and four-stroke gasoline engines in which the API FA-4 or SN service category and SAE 10W-30 viscosity grades 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:

- On highway 2017 greenhouse gas (GHG 17) compliant diesel engines with lower CO_2 emissions and improved fuel economy, in addition to EPA 2010 compliant low emission diesel engines with Selective Catalytic Reduction (SCR), Diesel Particulate Filter (DPF) and Exhaust Gas Recirculation (EGR) systems.
- Detroit Diesel DD15/DD13 EPA 13 and EPA 10 previous model diesel engines where the diesel engine OEM specifies API FA-4 performance standard as acceptable. This engine oil is backward compatible to these engines.

SPECIFICATIONS and OEM CLAIMS:

- API Service Categories FA-4, SN
- Cummins CES 20087
- MB 228.61
- DDC DFS93K223

Up to 20% improved fuel efficiency versus API CJ-4 SAE 10W-30**

Exceptional engine performance is maintained, providing for maximum vehicle utilization and minimal downtime.

**Based on Volvo D12D engine tests. An SAE 10W-30 API CK-4 product delivered 1%, and SAE 10W-30 API FA-4 product delivered 1.2% relative, to an SAE 15W-40 API CJ-4 product.

Delo®
Let's go further.®

530,000+ ON-TIME MILES

In this field trial Delo® 400 ZFA SAE 10W-30 delivered the reliability Boaty's Transport needs to deliver on time, and the fuel efficiency they need to reduce operating costs.

Boaty's Transport is an over the road refrigeration hauler located out of Jackson, GA. They haul perishable goods across the Eastern United States and uptime and on-time deliveries are critical to operating profitably in their business. Any truck downtime or delay can cause one of their loads to spoil and be rejected. **"Reliability is key for our business - hauling something like Blueberries, with a short shelf life, can cost us over $100,000 in loss if we breakdown on the road." - Shaun Boatwright.**

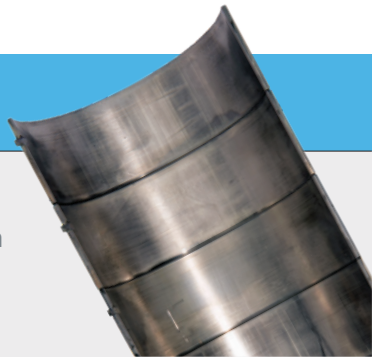
Boaty's Transport is always looking for ways to reduce total costs and became interested in the next generation API FA-4 oils to see if they could further improve fuel efficiency and help reduce operating costs while still protecting their engines. They chose Delo 400 ZFA SAE 10W-30 to test in their Kenworth T680 trucks with Paccar MX '13 engines to see if they could achieve these results.

After 530,000+ miles and documentation of 2%* improved fuel efficiency versus the API CJ-4 SAE 15W-40 engine oil they used in the rest of their fleet, they wanted to look at how well the key engine components were protected. A full engine teardown was conducted at their local OE dealer and the results were impressive – the key engine components were well protected and showed limited wear and excellent cleanliness.

* 1.2% is typical

Connecting Rod Bearings

Thrust side bearings are in very good condition with limited overlay removal and no copper showing

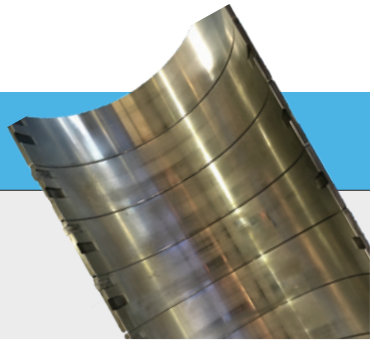


Pistons

Pistons are very clean with virtually no visible 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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