



# DELO<sup>®</sup> 600 ADF ISOCLEAN<sup>®</sup> CERTIFIED LUBRICANT 10W-30 (Synblend)

## PRODUCT DESCRIPTION

"Delo. Let's go further.<sup>®</sup>"

Delo<sup>®</sup> 600 ADF 10W-30 ISOCLEAN<sup>®</sup> Certified Lubricant with Ultra Low Ash Technology is a premium, high-performance, synthetic blend, heavy-duty, long drain and mixed-fleet engine oil. It is recommended for Tier IV Final & 2017 greenhouse gas-compliant, naturally aspirated and turbocharged four-stroke diesel engines, in which the API CK-4 service category and 10W-30 viscosity grade are recommended. It is also formulated for mobile compressed natural gas (CNG) engines. Delo 600 ADF 10W-30 ISOCLEAN Certified Lubricant provides extended diesel particulate filter (DPF) service intervals between manual cleanings and reduced fuel economy loss associated with DPF regenerations and ash build-up.

Chevron ISOCLEAN Certified Lubricants have been certified to meet specified ISO Cleanliness standards at point of delivery using industry leading filtration and testing technology. ISOCLEAN Certified products are the first step for contamination control and maximizing component life.

## CUSTOMER BENEFITS

Delo 600 ADF 10W-30 ISOCLEAN Certified Lubricant with *OMNIMAX*<sup>™</sup> is an API CK-4 performance heavy-duty engine oil, specifically formulated for off- and on-highway applications, including Tier IV Final and 2017 greenhouse gas-compliant (GHG 2017) engines with lower CO<sub>2</sub> emissions, as well as EPA 2010 compliant low emission diesel engines with Selective Catalytic Reduction (SCR), Diesel Particulate Filter (DPF) and Exhaust Gas Recirculation (EGR) systems, calling for API CK-4. It is also approved for use in mobile CNG engines that require oils meeting Cummins Engineering



Standard (CES) 20092, making it an excellent solution for fleets seeking a single product to service their diesel and CNG-fueled applications.

*OMNIMAX* delivers maximum system protection to both the engine and the emissions system. This all-encompassing protection helps drastically reduce the rate of DPF clogging to deliver extended DPF<sup>1</sup> service life and industry-redefining fuel economy retention.



Delo 600 ADF 10W-30 ISOCLEAN Certified Lubricant delivers value through:

- **Ready to use** — Enables users to meet stringent original equipment manufacturers' cleanliness standards for fill lubricants.
- **Flexibility** — ISO Cleanliness targets can be customized to fit your business application needs.
- **Peace of mind** — Each delivery of Chevron ISOCLEAN Certified Lubricant includes an ISOCLEAN Certificate of Analysis.
- **OE fluid cleanliness requirements** — Customized to meet specific equipment manufacturers' fluid cleanliness requirements.
- **Extended Emission Control System Interval** — Provides more than two times diesel particulate filter (DPF) service interval for minimal downtime and cleaning, thus managing your maintenance costs.
- **Maintain Fuel Economy Longer** — Less metallic additive ash build-up in DPF means less fuel

<sup>1</sup> Up to 2.5 times the extended DPF ash cleaning interval and up to 3% improved fuel economy retention based on Chevron field trials and engine tests.

Product(s) manufactured in the USA.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

A **Chevron** company product

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HDMO-80 ISOCLEAN

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consumed for regeneration and less DPF back pressure to help maintain fuel economy.

- **Exceptional Deposit Control** — Provides high performance piston deposit control and turbocharger protection due to its superb oxidation performance. Its high performing detergent and dispersant additives provide excellent diesel engine component protection.
- **Superb Long Drain Performance** — Formulated for exceptional long oil drain protection for both on and off-road diesel and CNG engines.
- **Minimized Operating Costs** — Exceptional soot dispersancy and wear control. Cylinders, pistons, rings, and valve train components are well protected against wear and corrosion, providing optimum service life and minimal maintenance. Contributes to maximum equipment utilization and minimal downtime.
- **Warranty Plus Protection** — Bumper-to-bumper warranty protection from the engine to the drive train. Payment for Chevron lubricant-related damage to your equipment, including parts and labor.<sup>2</sup> Problem resolution and technical advice from Chevron's lubrication experts.
- **Access to Chevron's Lubrication and Industry Knowledge** — Helps maximize your bottom line business results.

## FEATURES

Delo® 600 ADF 10W-30 ISOCLEAN® Certified Lubricant is formulated with *OMNIMAX*™, a Chevron Patented Technology. *OMNIMAX* delivers maximum system protection to both the engine and emissions system. This all-encompassing protection helps drastically reduce DPF clogging, delivering industry redefining fuel economy retention and extended DPF service life.

Delo 600 ADF 10W-30 ISOCLEAN Certified Lubricant meets or exceeds current heavy-duty engine oil specifications to provide durability and wear protection of critical diesel engine parts.

## FUNCTIONS

Delo 600 ADF 10W-30 ISOCLEAN Certified Lubricant with *OMNIMAX* meets or exceeds API CK-4 performance requirements with ultra-low levels of metallic additives reducing the amount of ash build-up in engine emission after treatment systems such as diesel particulate filters (DPF) thus reducing the frequency of regeneration and unit cleaning.

Delo 600 ADF 10W-30 ISOCLEAN Certified Lubricant helps to keep rings clean and free for maximum combustion pressure and to provide minimal wear. It minimizes valve and piston crown land deposits, thus managing oil consumption. Its high level of ashless dispersants keeps fuel soot in suspension and thus helps to avoid oil filter clogging, heavy cylinder head sludge, abrasive polishing wear, high viscosity increase, oil gelling, and minimizes the risk of valve train wear.

Specially selected oxidation inhibitors control oxidation, oil thickening and sludge. Its unique blend of anti-wear additives protects against valve train wear and adhesion of highly loaded parts operating under boundary lubrication. A specially selected viscosity index improver ensures easy flow at low temperatures and excellent film protection in hot engine areas. A defoaming additive protects against air entrainment.

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<sup>2</sup> See Warranty Plus for details and restrictions.

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## APPLICATIONS

Delo® 600 ADF 10W-30 ISOCLEAN® Certified Lubricant with *OMNIMAX™* is an API CK-4, ultra-low ash heavy duty engine oil specifically formulated for on highway applications, including 2017 greenhouse gas (GHG 17) compliant diesel engines with lower CO<sub>2</sub> emissions, in addition to 2010 compliant low emission diesel engines with Selective Catalytic Reduction (SCR), Diesel Particulate Filter (DPF) and Exhaust Gas Recirculation (EGR) systems calling for 10W-30 premium heavy duty motor oil.

Delo 600 ADF 10W-30 ISOCLEAN Certified Lubricant with ultra-low ash additive technology is also recommended for off highway Tier IV Final emission compliant engine applications where a 10W-30 viscosity grade is required. It is formulated for engines with Selective Catalytic Reduction (SCR), Diesel Particulate Filter (DPF) and Exhaust Gas Recirculation (EGR) systems. It is also approved for use in mobile CNG engines that require oils meeting Cummins Engineering Standard (CES) 20092, making it an excellent solution for fleets seeking a single product to service their diesel and CNG-fueled applications.

It is fully compatible with previous engine models and previous API Oil Service Categories.

### Delo 600 ADF 10W-30 ISOCLEAN Certified Lubricant is approved:

- for use in Cummins mobile compressed natural gas (CNG) engines
- for use in mixed diesel and CNG engine fleets

### Delo 600 ADF 10W-30 ISOCLEAN Certified Lubricant is also approved for:

- **API Service Categories** CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4
- **Cummins** CES 20086, CES 20092
- **Detroit Fluids Specification (DFS)** 93K222
- **DEUTZ** DQC IV-18 LA
- **DTFR** 15C100 (previously known as MB Approval 228.31)
- **Mack** EOS-4.5
- **MAN** M3775
- **Renault** RLD-3
- **Volvo** VDS-4.5

### Delo 600 ADF 10W-30 ISOCLEAN Certified Lubricant is recommended for:

- **ACEA** E8/E11
- **Caterpillar** ECF-3

Consult with your Chevron Lubricant Representative or Chevron ISOCLEAN Certified Lubricants Marketer to set specific ISO Cleanliness targets for your business application.

## TYPICAL TEST DATA

SAE Grade	10W-30
Product Number	257013
SDS Number	
U.S.	50739
Canada	50740
Mexico	50741
Density at 15°C, kg/L	0.862
Viscosity, Kinematic	
mm <sup>2</sup> /s at 40°C	79.1
mm <sup>2</sup> /s at 100°C	11.9
Viscosity, Cold Crank, °C/mPa.s	-25/6200
Viscosity, MRV, °C/mPa.s	-30/22,200
Viscosity, HTHS, mPa.s	3.6
Viscosity Index	145
Flash Point, °C(°F)	231(448)
Pour Point, °C(°F)	-33(-27)
Sulfated Ash, mass %	0.4
Base Number, mgKOH/g, ASTM D2896	7
Sulfur, mass %	0.2

Minor variations in product typical test data are to be expected in normal manufacturing.

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