



Ursa[®] Ultra LE 10W-30

Ultra high performance ISOSYN[®] synthetic blend heavy duty diesel engine lubricant

Product description

Ursa Ultra LE 10W-30 is an ultra high performance ISOSYN[®] synthetic blend heavy duty diesel engine lubricant designed to exceed industry and engine manufacturers' performance requirements in mixed fleet and marine applications. Ursa Ultra LE is formulated with advanced additive technology designed to deliver performance and protection in diesel engines meeting Euro IV and Euro V emissions requirements and 2007 EPA exhaust particulate emissions standards in on-highway diesel trucks running on ultra low sulphur diesel (ULSD). It is also compatible with previous API Oil Service Categories, ACEA E7 Sequences and engine models.

Ursa Ultra LE is formulated with ISOSYN[®] technology which utilises high viscosity index (VI) non-conventional base oils in combination with high performance dispersant and detergent agents, oxidation and corrosion inhibitors, anti-wear and anti-oxidation additives, along with a VI improver and foam suppression technologies. This product is designed to rival synthetic lubricants in critical engine tests.

Ursa Ultra LE is formulated to meet stringent exhaust gas recirculation (EGR) system soot control standards, and is specifically designed for use in engines with diesel particulate filters (DPFs), and is also designed to meet the high performance levels required in conventional engines and other engine technologies including Caterpillar ACERT[™].

Customer benefits

- **Helps reduce operating costs** — designed to protect against wear, corrosion and soot formation, helping increase engine uptime
- **Promotes fuel efficiency** — optimum viscosity in combination with advanced additives help reduce fuel consumption by around 1%

Product highlights

- **Helps reduce operating costs**
- **Promotes fuel efficiency**
- **Increased aftertreatment system uptime**
- **Reduced inventory costs**
- **Keep-clean performance**
- **Reduced oil consumption**

Selected specification standards include:

ACEA	API
Caterpillar	Cummins
Daimler	Mack
MAN	Renault
Volvo	

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.

- **Increased aftertreatment system uptime** — offers extended DPF service life with less cleaning downtime and maintenance cost
- **Reduced inventory costs** — backwards compatible with previous API categories, ACEA E7 sequences and engine models
- **Keep-clean performance** — designed to keep piston rings clean and free for improved combustion pressure with minimal wear
- **Reduced oil consumption** — helps reduce valve and piston crown land deposits, offering lower oil consumption
- **Reliable service** — helps keep soot in suspension, avoiding sludge, filter plugging, abrasive wear, viscosity increase, and gelling
- **Extended drain performance** — offers reduced oxidation, sludge, and undue oil thickening during recommended oil drain periods
- **Advanced wear protection** — extreme pressure anti-wear additives help protect against valve train wear and scuffing under high load
- **Wide temperature performance** — offers cold-start wear resistance with tough oil film engine protection in high temperature operation

Applications

- Ursa Ultra LE 10W-30 is a mixed fleet and marine motor oil recommended for use in naturally aspirated and turbocharged four-stroke diesel engines and four-stroke gasoline engines in which the API CJ-4 grade and SAE 10W-30 viscosity grade are recommended. It is formulated for engines operating under severe service and a wide range of climatic conditions
- Ursa Ultra LE 10W-30 is recommended for use in new advanced engines developed in response to latest emissions standards and in engines equipped with features such as four-valve heads, supercharging, turbocharging, direct injection, shorter piston crowns, higher power density, intercooling, full electronic management of fuel and emissions systems, exhaust gas recirculation, and exhaust particulate traps
- Ursa Ultra LE 10W-30 is formulated to offer excellent performance with Ultra Low Sulphur Diesel fuels as well as normal and low sulphur diesel fuels
- Ursa Ultra LE 10W-30 is recommended for highly rated diesel engines meeting Euro I, Euro II, Euro III, Euro IV and Euro V emissions requirements and running under severe conditions, such as extended oil drain intervals according to the manufacturer's recommendations

- Ursa Ultra LE 10W-30 is suitable for engines with or without particulate filters, and for most EGR engines as well as many engines fitted with SCR NOx reduction systems. It is recommended for engines fitted with particulate filters
- This product is recommended for use in older engines, as well as in today's most modern low emission designs
- Ursa Ultra LE 10W-30 is recommended for use in Caterpillar engines in off-highway or construction applications which require an API CJ-4 Service Category after January 1, 2007

Approvals, performance and recommendations

Approvals

- Cummins CES 20081
- Daimler MB 228.31
- Mack EO-O Premium Plus
- MAN M3575
- Renault RLD-3
- Volvo VDS-4

Performance

- ACEA E9
- API CJ-4, SM
- Caterpillar ECF-3, ECF-2
- MAN M3275
- Renault RLD-2
- Volvo VDS-3

Typical test data		
Test	Test Methods	Results
Viscosity Grade		10W-30
Product Code		002972
Density at 15°C, kg/l	ASTM D4052	0.870
Kinematic viscosity at 100°C, mm ² /s	ASTM D445	12.0
Viscosity Index	ASTM D2270	145
Pour point, °C	ASTM D97	-39
Flash point COC, °C	ASTM D92	220
Sulphated Ash, %wt	ASTM D874	1.0

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

Disclaimer Chevron accepts no liability for any loss or damage suffered as a result of using this product for any application other than applications specifically stated in any Product Data Sheet's.

Health, safety, storage and environmental Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS's are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

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