



Ursa® Ultra LE SAE 10W-30

Premium performance low SAPS ISOSYN® group II technology heavy duty diesel engine lubricant

Product description

Ursa Ultra LE SAE 10W-30 is a premium performance low SAPS ISOSYN group II technology heavy duty diesel engine lubricant designed to exceed industry and engine manufacturers' performance requirements in on- and off-highway heavy-duty diesel applications. Ursa Ultra LE SAE 10W-30 is formulated with advanced technology low SAPS additives designed to deliver performance and protection in diesel engines meeting Euro IV, Euro V and most Euro VI* emissions requirements and 2010 compliant engines in on-highway diesel trucks running on ultra low sulphur diesel (ULSD). It is also compatible with previous API Oil Service Categories.

Ursa Ultra LE SAE 10W-30 is formulated with ISOSYN® technology which utilises high viscosity index (VI) premium 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 SAE 10W-30 is formulated for newer engines with Selective Catalytic Reduction (SCR), Diesel Particulate Filter (DPF) and Exhaust Gas Recirculation (EGR). It is also designed to meet stringent exhaust gas recirculation (EGR) system soot control standards, and to meet the high performance levels required in conventional engines and other engine technologies including Caterpillar ACERT™.

Ursa Ultra LE SAE 10W-30 can also be used in off-road transmissions that require ZF TE-ML 03K.

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
DAF	Deutz
Detroit Diesel	Mack
MAN	Mercedes Benz
MTU	Renault
Volvo	ZF

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. Up to 3.6% improvement versus SAE 15W-40 oils in on-road testing of class 6 vehicles, and up to 1% improvements over SAE 15W-40 oils in on-road testing of class 8 vehicles
- **Increased aftertreatment system uptime** — offers extended DPF service life with less cleaning downtime and maintenance cost
- **Reduced inventory costs** — backwards compatible with previous API Oil Service Categories, and can also be used in a number of ZF transmissions for off-road equipment
- **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 SAE 10W-30 is a fuel efficient heavy-duty diesel motor oil recommended for use in naturally aspirated and turbocharged four-stroke diesel engines in which the ACEA E9, 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 SAE 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, exhaust selective catalytic reduction and exhaust particulate traps

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- Ursa Ultra LE SAE 10W-30 is fully compatible with previous engine models and previous API Oil Services Categories. It is recommended for highly rated diesel engines meeting Euro I - Euro V and most diesel engines meeting Euro VI* emissions requirements and running under severe conditions, such as extended oil drain intervals according to the manufacturer's recommendations
- Ursa Ultra LE SAE 10W-30 is also recommended for use in off-highway engines and those in marine, agriculture, mining or construction applications
- Ursa Ultra LE SAE 10W-30 is recommended for use in ZF transmissions for off-road equipment: off road vehicles, special vehicles and lift trucks that require ZF TE-ML 03K.

Approvals, performance and recommendations

Approvals

- Deutz DQC III-10 LA
- Mack EO-O Premium Plus
- MAN M3575
- Mercedes Benz MB-Approval 228.31
- MTU Category 2.1
- Renault RLD-3
- Volvo VDS-4
- ZF TE-ML 03K

Performance

Ursa Ultra LE 10W-30 meets:

- ACEA E9
- API CJ-4, SM
- Caterpillar ECF-3, ECF-2, ECF-1a
- Cummins CES 20081
- Detroit Diesel 93K218
- Mack EO-N
- Renault RLD-2
- Volvo VDS-3

Recommendations

Suitable for use in applications requiring:

- DAF Standard Drain (Euro VI engines)
- Renault RD, RD-2, RLD
- Volvo VDS-2

* Recommendations may differ between engine manufacturers so Driver Manuals and/or Dealers should be consulted if in doubt.

Typical test data		
Test	Test Methods	Results
Viscosity Grade		SAE 10W-30
Shelf Life: 60 months from date of filling indicated on the product label		
Density at 15°C, kg/l	ASTM D4052	0.871
Kinematic viscosity at 100°C, mm ² /s	ASTM D445	12.0
Kinematic viscosity at 40°C, mm ² /s	ASTM D445	79.0
Viscosity Index	ASTM D2270	147
Pour point, °C	ASTM D5950	-27 min, -44 typ
Flash point COC, °C	ASTM D92	222
Total Base Number, mg KOH/g	ASTM D2896	8.2
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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