



## ELITE TRUCK15W-40 CK-4 - MINERAL

### Description:

Advanced mineral lubricant for diesel engines that helps extend engine life. These products meet or exceed original equipment manufacturer (OEM) requirements and offer high performance in on- and off-highway applications.

Delivers exceptional performance in both the latest and older heavy-duty engine designs.

As a result, this oil meets or exceeds the requirements of API service categories CK-4, CJ-4, CI-4 PLUS, CI-4 and CH-4, as well as key OEM requirements. It is a universal oil, meaning it can also be used in gasoline engines requiring the API SN specification.

Contains a tailored formulation that provides excellent wear and engine protection, increased drainage capacity, excellent high temperature performance and engine cleanliness. Developed in close collaboration with leading original equipment manufacturers. It is recommended for use in a wide range of heavy duty applications and operating environments in the road transport, mining, construction, agriculture and marine sectors.

### Applications:

- Recommended for most modern high-power diesel engines, including those equipped with aftertreatment and EGR systems.
- Recommended for diesel applications using older conventional and naturally aspirated designs.
- Heavy duty on-highway and off-highway applications including trucking, mining, construction, agriculture and marine.
- Highway applications operating both at high speed/high load and in pick-up/delivery service short journeys.
- Off-highway applications operating under severe low speed/heavy load conditions using fuels with up to 500 ppm sulfur.
- High performance gasoline engines requiring API SN and mixed fleet operations.
- Diesel equipment from American, European and Japanese original equipment manufacturers.

### Product Benefits:

- Meets the demanding specifications of major OEMs and the latest API Gasoline Service Category - A motor oil for mixed fleet operations.
- Excellent oxidation stability – Extended ODI capability. Reduces low temperature sludge formation and high temperature deposits.
- Excellent soot and viscosity control - Increased engine efficiency, longer engine life and longer engine life oil.
- Excellent oil consumption control - Lower oil costs due to less replacement oil during operation.
- Excellent TBN reserves – Corrosion protection and extended drain intervals for new and older engines using diesel fuel with up to 500 ppm sulfur.
- Low temperature fluidity and pumpability - Formulated for smooth starting in cold weather.
- Resistance to corrosive and abrasive wear - Long life of critical wear surfaces.
- Component compatibility - Long life of gaskets and seals.
- Low ash formulation that meets API CK-4 and CJ-4 requirements - Long aftertreatment life (DPF, DOC and SCR).

### Properties:

It is formulated with optimized base oil technology and a tailored additive system to deliver extended performance up to 50% beyond the manufacturer's recommended oil change intervals.





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This proprietary formulation provides excellent wear protection, outstanding oxidation stability and outstanding TBN retention. It also provides outstanding resistance to oil consumption, oxidation, corrosive and abrasive wear and high temperature deposits.

It has the potential to improve fuel economy.

### Technical properties:

TYPE OF ANALYSIS	METHOD	RESULT
Viscosity Grade	SAE J300	15W-40
Density 15°C, g/ml,	ASTM D-4052	0.874
Cold cranking viscosity (CCS), mPa.s	ASTM D-5293	6600 @-20yC
Kinematic Viscosity at 40°C, mm²/s	ASTM D-445	116.5
Kinematic Viscosity at 100°C, mm²/s	ASTM D-445	14.50
Viscosity index	ASTM D-2270	127
Flash point, °C	ASTM D-92	226°C
Pour point, °C	ASTM D-97	-27°C
Total Base Number, mg KOH/g	ASTM D-2896	9.8
Phosphorus, %wt	ASTM D-4951, max	0.12

\* Note: These features are representative of current production. Although future production will conform to current specifications, variations in these features may occur.

### Specifications / Recommendations:

Meets or exceeds requirements for diesel engines, gasoline engines and other applications requiring any of the following specifications:

API CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4/SN

ACEA E9, E7

MB-Approval 228.31

JASO DH-2

Isuzu DEO (w/ DPD Equipped Vehicles)

Allison TES 439

Deutz DQC III-18 LA

Caterpillar ECF-3

Cummins CES 20086,20081

MTU Type 2.10

Volvo VDS-4.5, VDS-4

Mack EOS-4.5, EO-O Premium Plus

MAN M3775, MAN M 3275, M 3575

Detroit Fluids Specification 93K222, 93K218

### Health and Safety:

Based on available information, this product is not expected to cause adverse health effects when used for its intended application and the recommendations provided in the Material Safety Data Sheet (MSDS/SDS) are followed. MSDS are available upon request through your sales contact office.

This product should not be used for purposes other than its intended use. If you are disposing of the used product, please take care to protect the environment.

