



ATLANTIC SUPER TOP FLEET HD-V DIESEL ENGINE OIL API CK-4 (High Performance Heavy Duty Diesel Engine Oil)

DESCRIPTION

ATLANTIC SUPER TOP FLEET HD-V DIESEL ENGINE OIL are advanced diesel engine oils that help extend engine life, allowing you to run your business with confidence. These products meet or exceed original equipment manufacturer (OEM) requirements and deliver high performance in both on and off-highway applications. Fully backward compatible, **ATLANTIC SUPER TOP FLEET HD-V DIESEL ENGINE OIL** are delivers exceptional performance in both newer and older heavy-duty engine designs. Accordingly, these oils meet or exceed the requirements of API CK-4, CJ-4, CI-4 PLUS, CI-4 and CH-4 service categories, as well as key OEM requirements. **ATLANTIC SUPER TOP FLEET HD-V DIESEL ENGINE OIL** are universal, meaning they may also be used in gasoline engines requiring the API SN specification. **ATLANTIC SUPER TOP FLEET HD-V DIESEL ENGINE OIL** is a tailored formulation that delivers excellent wear and engine protection, extended drain capability, outstanding high temperature performance and engine cleanliness. Developed in close collaboration with major OEMs, they are recommended for use in a wide range of heavy-duty applications and operating environments in the trucking, mining, construction, agricultural and marine industries.

APPLICATIONS

- Recommended for the latest heavy duty diesel engines, including those equipped with after treatment systems and EGR.
- Recommended for diesel applications using older and naturally aspirated conventional designs.
- On-highway heavy-duty trucking and off-highway applications including trucking, mining, construction, agriculture and marine.
- On-highway applications operating in both high speed/high load and short haul pick-up/delivery service.
- Off-highway applications operating in severe low speed/heavy load conditions using up to 500 ppm sulfur fuels.
- High performance gasoline engines requiring API SN and mixed fleet operations.
- Diesel-powered equipment from American, European and Japanese OEMs.

PRODUCT FEATURES & BENEFITS

Meets demanding specifications of key OEMs and latest API gasoline service category - One engine oil for mixed fleet operations

Outstanding oxidation stability - Extended ODI capability. Reduced low temperature sludge build-up and high temperature deposits

Excellent soot and viscosity control - Greater engine efficiency, long engine life and long oil life

Excellent oil consumption control - Lower oil costs due to less make-up oil during operation

Outstanding TBN reserves - Corrosion protection and extended drain intervals for both new and old engines using up to 500 ppm sulfur diesel fuel

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 gasket and seal life

Low ash formulation meeting API CK-4 and CJ-4 requirements - Long emissions aftertreatment life (DPF, DOC and SCR)

PROPERTIES

ATLANTIC SUPER TOP FLEET HD-V DIESEL ENGINE OIL is formulated with optimized base oil technology, containing severely hydro-processed base stocks and a tailored additive system to deliver extended performance for up to 50% beyond OEM-recommended oil drain intervals. This proprietary formulation delivers excellent wear protection, outstanding oxidation stability, and outstanding TBN retention. They also provide outstanding resistance to oil consumption, oxidation, corrosive and abrasive wear, and high temperature deposits. **ATLANTIC SUPER TOP FLEET HD-V DIESEL ENGINE OIL** has the potential to improve fuel economy.

Health and Safety: Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contact office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing off used product, take care to protect the environment.



OEM APPROVED(SAE 15W-40)-: MB Approval 228.31, MAN M3775, Volvo VDS-4.5, Caterpillar ECF-3, Deutz DQC II-10 LA.

RECOMMENDATIONS / SPECIFICATIONS

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

- API: CK-4, CK-4/SN, CJ-4, CI-4 PLUS, CI-4, CH-4 / SN
- ACEA: E7/E9-16
- Deutz DQC II-10 LA
- Mack EOS-4.5
- Ford: 171-F1
- Caterpillar ECF-3
- Cummins CES 20086
- Detroit: DFS 93K222
- MTU-Type 2.1
- Renault: RLD-4/RLD-3

TYPICAL TECHNICAL PROPERTIES

ATLANTIC SUPER TOP FLEET HD-V DIESEL ENGINE OILS CK-4		
Viscosity Grade, SAE J300	10W-30	15W-40
Density at 15°C, g/ml, ASTM D4052	0.874	0.874
Cold Cranking Viscosity (CCS), mPa s, ASTM D5293	5900 @-25°C	6600 @-20°C
Kinematic Viscosity at 40°C, mm ² /s, ASTM D445	80.2	118.5
Kinematic Viscosity at 100°C, mm ² /s, ASTM D445	12	15.5
Viscosity Index, ASTM D2270	145	138
Flash Point (COC), °C, ASTM D92	226	226
Pour Point, °C, ASTM D97	-42	-33
Total Base Number, mg KOH/g, ASTM D2896	10.0	10.0
Sulfated Ash, wt%, ASTM D 874	0.99	0.99
MRV, cP, ASTM D 4684	23000 @-30°C	17500 @-25°C
High-Temperature/High-Shear Viscosity @ 150°C, cP, ASTM D4683	3.5	4.1

Note: These characteristics are typical of current production. While future production will conform to Atlantic's specification, variations in these characteristics may occur.

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 * supersedes all previous versions

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