



ATLANTIC SUPER TOP FLEET HD-V NATURAL GAS MOBILE ENGINE OIL SAE 15W-40 API CK-4

(High-Performance Heavy-Duty Diesel Engine Oil - Natural Gas Mobile Engine Oils)

DESCRIPTION

ATLANTIC SUPER TOP FLEET HD-V NATURAL GAS MOBILE ENGINE OIL SAE 15W-40 API CK-4 delivers superior engine protection and extended drain capabilities for Compressed Natural Gas/Liquefied Natural Gas (CNG/LNG) engines in mobile applications as well as mixed fleets. They are API CK-4 licensed and meets the requirements of Cummins CES 20092 and CES 20086 and deliver high performance in both on and off-highway applications.

ATLANTIC SUPER TOP FLEET HD-V DIESEL ENGINE OIL SAE 15W-40 API CK-4 is a tailored formulation with premium quality base oils, blended with proven premium additives and outperforms demanding OEM specifications such as Cummins CES 20092. Its proven technology helps mixed fleets with natural gas, diesel and gasoline engines start with ease in cold weather, while retaining protection under high temperature operating conditions.

APPLICATIONS

ATLANTIC SUPER TOP FLEET HD-V NATURAL GAS MOBILE ENGINE OIL SAE 15W-40 API CK-4 is recommended for use in natural gas, diesel and gasoline engines that require excellent wear control. It is recommended for use where oils meeting Cummins CES 20092 is specified, and is fully back serviceable to CES 20085 specification.

ATLANTIC SUPER TOP FLEET HD-V NATURAL GAS MOBILE ENGINE OIL SAE 15W-40 API CK-4 is also suitable for use in diesel powered engines, including heavy duty and light duty trucks as well as passenger cars where API CK-4/SN, CJ-4, CI-4 Plus, CI-4, CH-4 or earlier specifications are required.

PERFORMANCE FEATURES AND 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 after treatment life (DPF, DOC and SCR)
- Extended Drains - Extending oil drains can help minimize downtime, maintenance costs and waste to the environment

RECOMMENDATIONS / SPECIFICATIONS

International Standards: API CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4/SN, ACEA E9, E7

Meets or exceeds: Caterpillar ECF-3, Cummins CES 20092, CES 20086, RVI RLD-4, Mack EOS-4.5, Detroit Diesel DFS 93K222, JASO DH-2, MB Approval 228.31, Volvo VDS-4.5, VDS-4, MTU Type 2.10, Allison TES 439

TYPICAL TECHNICAL PROPERTIES

Viscosity Grade, SAE J300	15W-40
PRODUCTS CODE:	DEO-24085
Density at 15°C, g/ml, ASTM D4052	0.874
Cold Cranking Viscosity(CCS), mPa s, ASTM D5293	6500 @-20°C
Kinematic Viscosity at 40°C, mm²/s, ASTM D445	117
Kinematic Viscosity at 100°C, mm²/s, ASTM D445	15.1
Viscosity Index, ASTM D2270	134
Flash Point(COC), °C, ASTM D92	228
Pour Point, °C, ASTM D97	-39
Total Base Number (TBN), mg KOH/g, ASTM D2896	10
Sulfated Ash, wt%, ASTM D 874	0.9
MRV, cP, ASTM D 4684	19285 @-25°C
High-Temperature/High-Shear Viscosity @ 150°C, cP, ASTM D4683	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

Packing : 700 ml ,800 ml , 1L , 2L, 3L, 4L, 5L, 6.5L, 7L, 8L,16L,18L, 20L, 25L, 200L, 205L, 208L, 210L