



## ATLANTIC TOP FLEET LOW SAP LONG DRAIN ENGINE OILS

(High Performance Diesel Engine Oil)

### PRODUCT DATA

#### DESCRIPTION

The state-of-the-art wear-reducing additives contained within this synthetic engine oil are engineered to combine stable oil performance with excellent engine protection, resulting in extended drain intervals without ever compromising on engine protection. The ultra-thin protective oil film retains its excellent protective properties over a wide range of temperatures. Furthermore, the engine oil has high shear resistance, cutting down on maintenance costs by further extending drain intervals.

#### APPLICATIONS

Both off- and on-road heavy-duty applications with or without turbochargers, superchargers or after-treatment systems can be serviced with this engine oil. It meets the specifications of a wide range of high-demanding specifications including the Scania LDF-4. Thanks to its backward compatibility, this versatile engine oil can be used in both modern and older engines. It is compatible with emission control technology EURO IV, V and VI for trucks; as well as stage IIIB, IV and Tier 4i, 4f for heavy-duty off-road.

#### PROPERTIES

Aftertreatment protection: full aftertreatment system protection.

Fuel economy: superior fuel economy and CO<sub>2</sub> reduction.

Total engine protection: outstanding engine cleanliness and durability.

#### PERFORMANCE FEATURES AND BENEFITS

This low viscosity engine oil offers complete engine protection and cleanliness over an extended period of time. It enables a wide range of vehicles to optimize engine performance whilst extending oil drain intervals.

#### RECOMMENDATIONS / SPECIFICATIONS

ACEA: E4, E6, E7, E9, API: CK-4

CATERPILLAR: ECF-3, CUMMINS: CES 20081, CUMMINS: CES 20086

DETROIT DIESEL: DFS 93K218, DETROIT DIESEL: DFS 93K222, DEUTZ: Approval DOC-IV-18 LA

JASO: Approval DH-1-17, DH-2-17, DL-0-17, MACK: Approval EO-S 4.5, MAN: Approval M3677, M3777

MAN: M3271-1, MAN: M3477, MAN: M3575, MAN: M3775(10W-40)

MB: 228.31, MB: Approval 228.51, MB: Approval 228.52, MTU: Oil Category 2.1, MTU: Oil Category 3.1

RENAULT: Approval RLD-3, RENAULT: RLD-4, SCANIA: Approval LDF-4, VOLVO: Approval VDS-4.5

#### TYPICAL TECHNICAL PROPERTIES

Viscosity Grade, SAE J300	10W-40	5W-30
PRODUCT CODE	D3337-INF-A	D3337-INF-B
Density at 15°C, g/ml, ASTM D4052	0.874	0.847
Cold Cranking Viscosity (CCS), mPa s, ASTM D5293	6000@-25°C	5638@-30°C
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	95	66.9
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	14.3	12.13
Viscosity Index, ASTM D2270	155	181
Flash Point (COC), °C, ASTM D92	228	232
Pour Point, °C, ASTM D97	-39	-45
Total Base Number, mg KOH/g, ASTM D2896	13.4	13.4
Sulphated Ash, %wt, ASTM D874, max	0.96	0.96

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\* supersedes all previous versions

**Health and Safety:** This lubricant, when used in accordance with our recommendations and for the application for which it is intended, does not constitute any special hazard. A safety data file conforming to the requirements of current EC legislation is available from your local trade consultant.

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