

ADVANTAGE 15W40 MACK CI-4 PLUS HD DIESEL ENGINE OIL

Overview

ADVANTAGE 15W40 MACK CI-4+ HD DIESEL ENGINE OIL is formulated to meet or exceed the warranty requirements of most diesel and gasoline engines. This oil is formulated to meet the Mack EO-N Premium Plus '03 specification and the enhanced CI-4 Plus (supplemental) specification for use in EGR equipped heavy-duty diesel engines in high output service. ADVANTAGE 15W40 MACK CI-4+ HD DIESEL ENGINE OIL meets the performance requirements of most diesel engine manufacturers such as Caterpillar, Cummins, Detroit Diesel, Ford, Mack, Navistar, and Volvo. It can be used with complete success in over-the-road diesel trucks, off-highway diesel equipment, farm tractors, and passenger cars and light trucks with diesel engines, turbo-charged or non turbo-charged and well as gasoline engines.

Features and Benefits

- Reduces oil consumption
- Prevents soot and sludge formation on piston rings
- Increases engine power output
- Provides protection against thermal breakdown.
- Excellent cold temperature properties

Applications

ADVANTAGE 15W40 MACK CI-4+ HD DIESEL ENGINE OIL is recommended for use in a wide range of heavy duty applications and operating environments found in the trucking, construction, and agricultural industries. These products will meet the most demanding diesel engines requirements of Caterpillar, Cummins, Detroit Diesel and Mack.

Recommended For Applications

API CI-4, CH-4, CG-4, CF-4, CF
 API CI-4 Plus (Supplemental)
 API SL
 Caterpillar TO-2
 Cummins CES 20076,20077, 20078
 Detroit Diesel series 2000 & 4000
 Detroit Diesel series 92
 MACK EO-N Premium Plus
 MAN 3275
 Allison C-4
 Volvo VDS, VDS-2, VDS-3
 Global DHD-1
 Cat ECF-1
 MB 228.3

Typicals

PRODUCT CODE	521
SAE Grade	15W-40
CCS, cP @-20 °C	6811
Viscosity, cSt/100 °C	15.55
Viscosity, cSt/40 °C	120.38
Viscosity Index	135
Pour Point, °C	-34
Sulfated Ash wt%	1.37
Calcium, wt %	.3290
Phosphorus wt %	.1270
Magnesium wt %	Nil
Zinc wt %	.1420
Nitrogen wt %	.093
TBN	9.5
Specific Gravity	0.8740
Flash Point, COC °F	218

Overview

ADVANTAGE 68 REFRIGERATION OIL is a premium quality circulating oil for use in centrifugal, rotary screw, and reciprocating compressors used in ammonia refrigeration systems. Formulated with highly refined paraffinic base oils and select additives, ADVANTAGE 68 REFRIGERATION OIL provides excellent low temp properties, superior oxidation resistance, and low foaming tendencies. Specifically designed for ammonia refrigerant systems providing sub-zero cooling, ADVANTAGE 68 REFRIGERATION OIL has been used in system with temperatures ranging from -34 °C to 121 °C.

Typical Properties

PRODUCT CODE	490
Viscosity, cSt/40°C	68.0
Viscosity, cSt/100°C	8.7
Viscosity, SUS/100°F	353
Viscosity, SUS/210°F	55.5
Flash Point, COC °F	480
Viscosity Index	100
Pour Point, °C	-33
Specific Gravity @ 60 F	0.871
Acid #, ASTM D874 mg KOH/g	0.05
Foam Test	Pass