This is a semi synthetic lubricant based on carefully selected highly refined base oils. This oil is designed to meet the latest specifications of both European and American manufacturers of heavy diesel engines. It provides excellent protection against deposits in oil pipes, turbo's and provides improved protection against camshaft wear.

# **APPLICATIONS**

Suitable for low-emission engines in the Euro II and Euro III standards. It is not suitable for Euro IV engines with particulate filter. It allows very long drain intervals.

## **FEATURES**

Total engine protection: outstanding engine cleanliness and durability Cold start: very good fluidity at low temperature

#### **SPECIFICATIONS**

**ACEA** A3/B4 **ACEA** E7

API approval CI-4/SL

API CF-4 CG-4 API API CH-4 DH-1 **JASO** ALLISON С4 CATERPILLAR ECF-1a ECF-2 CATERPILLAR **CATERPILLAR** T0-2 **CUMMINS** CES 20076 **CUMMINS** CES 20077 CUMMINS CES 20078 DETROIT DIESEL DFS 93K215 DEUTZ approval DQC-III-18 DEUTZ DQC-III-10

DTFR 15B110
GLOBAL DHD-1

**IVECO** 18-1804 Classe T2 E7

 MACK
 E0-M PLUS

 MACK
 E0-N

 MAN
 M3275-1

 MB
 229.1

 MTU
 Oil Category 1

 MTU
 Oil Category 2

RENAULT RLD-2 VOLVO VDS-3

## CHAMPION CHEMICALS NV

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# **TYPICAL CHARACTERISTICS**

Test	Method	Unit	Average results
Density at 15°C	ASTM D4052	g/ml	0.863
Kinematic viscosity at 40°C	ASTM D445	mm²/s	88.4
Kinematic viscosity at 100°C	ASTM D445	mm²/s	13.8
Viscosity index	ASTM D2270		160
B.N. (HCLO4 method)	ASTM D2896	mg KOH/g	11.4
Pour point	ASTM D6892	°C	-39
CCS viscosity at -25°C	ASTM D5293	mPa.s	5500
Sulfated Ash	ASTM D874	Mass %	1.49
Flash Point COC	ASTM D92	°C	227

We reserve the right to alter the general characteristics of our products in order to let our customers benefit of the latest technical evolutions.



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