

# ACTIVE DEFENCE

## 20W50 SHPD

*Multigrade engine oil, suitable for all diesel engines in all working conditions and during the whole year. Due to the high content of active components, this oil can be used all year round in the toughest conditions. Because of the high resistance against ageing, it is possible to apply longer drain periods.*

### APPLICATIONS

*This oil is suitable for all diesel engines with natural aspiration or turbocharging, in all working conditions in all seasons and long drain periods. It is also suitable for most gasoline engines.*

### FEATURES

*Total engine protection : performance in keeping the engine clean.  
Drain interval extension: long period between oil change.*

### SPECIFICATION LEVEL

<b>ACEA</b>	E3-96 Issue 4	<b>MAN</b>	M3275-1
<b>ACEA</b>	A3/B3-10	<b>MB</b>	228.3
<b>ACEA</b>	A3/B4-08	<b>MB</b>	229.1
<b>ALLISON</b>	C4 Level	<b>MTU</b>	Oil Category 2
<b>API</b>	CG-4/SJ	<b>VOLVO</b>	VDS-2
<b>MACK</b>	EO-L		

### TYPICAL CHARACTERISTICS

Test	Method	Unit	Average results
Density at 15°C	ASTM D4052	g/ml	0.896
Kinematic viscosity at 40°C	ASTM D445	mm <sup>2</sup> /s	170
Kinematic viscosity at 100°C	ASTM D445	mm <sup>2</sup> /s	19.2
Viscosity index	ASTM D2270		129
B.N. (HClO <sub>4</sub> method)	ASTM D2896	mg KOH/g	8.7
Pour point	ASTM D6892	°C	-27
CCS viscosity at -15°C	ASTM D5293	mPa.s	8200
Sulfated Ash	ASTM D874	Mass %	1.33
Flash Point COC	ASTM D92	°C	235

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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