

# WOLF GUARDTECH 20W50 SHPD

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1247

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

Suitable for all modern Euro II, III and some Euro IV diesel engines of heavy-duty equipment, also suitable for most gasoline engines, making it a great lubricant for mixed fleet maintenance.

## FEATURES

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

## SPECIFICATIONS

ACEA	A3/B3-10	MACK	EO-L
ACEA	A3/B4-08	MAN	271
ACEA	E3-96 Issue 4	MAN	M3275-1
API	CF-4/SJ	MB	227.1
API	CG-4/SJ	MB	228.1
MIL	L-2104 E	MB	228.3
MIL	L-46152 D	MB	229.1
CATERPILLAR	TO-2	MTU	Oil Category 1
CUMMINS	CES 20071	MTU	Oil Category 2
CUMMINS	CES 20072	VOLVO	VDS-2
DAIMLER TRUCK	DTFR 15B110		

## TYPICAL CHARACTERISTICS

Test	Method	Unit	Average results
Density at 15°C	ASTM D4052	g/ml	0.891
Kinematic viscosity at 40°C	ASTM D445	mm²/s	150
Kinematic viscosity at 100°C	ASTM D445	mm²/s	17.7
Viscosity index	ASTM D2270		130
B.N. (HClO4 method)	ASTM D2896	mg KOH/g	8.5
Pour point	ASTM D6892	°C	-33
CCS viscosity at -15°C	ASTM D5293	mPa.s	8200
Sulfated Ash	ASTM D874	Mass %	1.18
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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