



## Technical Data Sheet (TDS) SAE 20W-50 API CH-4/SJ

Universal mineral oil of high quality, suitable for diesel engines (supercharged or naturally aspirated) and gasoline engines operating in cold climatic conditions.

### APPLICATIONS

This oil is particularly recommended for fixed diesel engines, material for public works and mixed fleets of trucks and cars. It can also be used as hydraulic oil (eg. Caterpillar)

### FEATURES

Total engine protection: performance in keeping the engine clean

### PERFORMANCE

ACEA	E2/E1	MAN	270
API	CH-4/SJ	MB	227.0
MIL	L-2104 E	MB	228.0
MIL	L-46152 E	ZF	TE-ML 03B
CATERPILLAR	TO-2	ZF	TE-ML 05K

### TYPICAL CHARACTERISTICS

Test	Method	Unit	Average results
Density at 15°C	ASTM D4052	g/ml	0.872
Kinematic viscosity at 40°C	ASTM D445	mm <sup>2</sup> /s	33.4
Kinematic viscosity at 100°C	ASTM D445	mm <sup>2</sup> /s	6.1
Viscosity index	ASTM D2270		132
B.N. (HClO <sub>4</sub> method)	ASTM D2896	mg KOH/g	7.0
Pour point	ASTM D6892	°C	-36
Sulfated Ash	ASTM D874	Mass %	0.88
Flash Point COC	ASTM D92	°C	212

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