



# GRANIT SUPER



## DESCRIPTION

GRANIT SUPER SAE 20W-50 is a super high performance diesel engine oil, suitable for use in Euro II to Euro IV engines without diesel particulate filters. GRANIT SUPER SAE 20W-50 is the reliable backbone of many vehicle fleets, boasting ACEA E7-12 and API CH-4 and CI-4 performance, providing for wear protection and safeguarding the turbocharger's optimal operation by minimizing deposits formation.

## APPLICATIONS

GRANIT SUPER SAE 20W-50 utilizes the latest technology to deliver exceptional performance for both on- & off-highway heavy duty, Euro III engines (or older) and Euro IV/V (with EGR or SCR systems). GRANIT SUPER SAE 20W-50 surpasses the strictest specifications of international organizations and OEMs, such as API, ACEA and Daimler.

## CHARACTERISTICS-BENEFITS

CHARACTERISTICS	BENEFITS
High performance additive technology.	High levels of wear protection; superior turbocharger shaft lubrication.
Superior engine cleanliness.	Maintaining clean oil galleries and ensuring the oil can flow.
Enhanced TBN/cleanliness protection.	Full biofuel compatibility; outstanding resistance to corrosion; protection against piston ring sticking.
Low volatility properties.	Reduced oil consumption; increased viscosity retention.

## PHYSICAL-CHEMICAL CHARACTERISTICS

GRANIT SUPER	METHOD	SAE 20W-50
Density at 15°C, g/cm <sup>3</sup>	ASTM D1298	0,888
Dynamic Viscosity, °C /cP	ASTM D5293	-15/8100
Viscosity, Kinematic (cSt) 100°C	ASTM D445	19,3
Viscosity, Kinematic (cSt) 40°C	ASTM D445	179
Viscosity index	ASTM D2270	123
Flash point, COC, °C	ASTM D92	232
Pour point, °C	ASTM D97	-27
TBN, mgKOH/g	ASTM D2896	10,6

The above mentioned characteristics represent mean values.

## SPECIFICATIONS

ACEA E7, E5, E3; Global DHD-1; MTU Cat. 2; Daimler MB 228.3; Volvo VDS-3; Renault Trucks RLD-2; Mack EO-M Plus; Cummins CES 20076, 20077, 20078; DAF SHPD, Caterpillar ECF-2/-1a; Deutz DQC III-10; Detroit Diesel DDC 93K215  
Level: Allison C4

## APPROVALS

API CI-4, SL; MAN M3275-1