



GRANIT

VDS



DESCRIPTION

GRANIT VDS SAE 15W-40 is a top tier midSAPS HDDEO. It has been engineered to satisfy the strict requirements of new generation diesel engines with particulate filters and other after-treatment systems. It is manufactured with extremely high quality and thermal stability, severely hydrotreated base oils and TriboACT® Formula, which enable the product to offer excellent overall protection to the engine and turbocharger unit. GRANIT VDS SAE 15W-40 has been designed to protect and complement expensive engine components, to provide for normal to extended drain intervals and confidence to a number of OEMs who acknowledge its performance level and quality by issuing approvals to its name.

APPLICATIONS

GRANIT VDS SAE 15W-40 is suitable for all types of diesel engines of Euro IV V, VI, US EPA 2007/2010 generation and on-/off-highway, stage IIIB and Tier IV, heavy duty units that require performance levels defined as by API CJ-4, API SM, ACEA E9 or E7 or/and operate with diesel fuel running on low sulphur fuel (<15ppm). It is a versatile SHPD engine oil that is equally suitable for older generation engines (Euro II or Euro III) that run on higher sulphur fuels (up to 500 ppm).

CHARACTERISTICS-BENEFITS

CHARACTERISTICS	BENEFITS
TriboACT® Formula engineered.	Superior soot wear protection; elevated turbocharger protection.
Unconventional basestock formulation.	Reduced oil consumption; wide range of temperature applications.
Excellent thermal stability.	Delivering full engine protection even at temperatures as low as -30°C.
Super high performance diesel oil.	Normal to extended drain intervals; intended for heavy duty environments.
Exhaust after-treatment compatibility.	Low sulphated ash, phosphorus and sulphur formula, preventing damage to exhaust after-treatment devices and protecting the environment.

PHYSICAL-CHEMICAL CHARACTERISTICS

GRANIT VDS	METHOD	SAE 15W-40
Density at 15°C, g/cm ³	ASTM D1298	0,872
Dynamic Viscosity, °C /cP	ASTM D5293	-20°C/6250
Viscosity, Kinematic (cSt) 100°C	ASTM D445	14,93
Viscosity, Kinematic (cSt) 40°C	ASTM D445	109,1
Viscosity index	ASTM D2270	136
TBN, mgKOH/g	ASTM D2896	7,8
Flash point, COC, °C	ASTM D92	236
Pour point, °C	ASTM D97	-30

The above mentioned characteristics represent mean values.

SPECIFICATIONS

API CJ-4, CI-4+, CI-4, SM; ACEA E9; MB 228.31; MAN M3575; MTU Cat. 2.1; Mack EO-O Premium Plus; Renault Trucks RLD-3; Volvo VDS-4; Caterpillar ECF-3, ECF-2, ECF-1a; Cummins CES 20081; Detroit Diesel DDC 93K218; Deutz DQC III-10 LA; Global DHD-1
Level: JASO DH-2

APPROVALS

API CJ-4, SM; MB-Approval 228.31; Mack EO-O Premium Plus; Renault Trucks RLD-3; Volvo VDS-4