



GRANIT

SYN HPD



DESCRIPTION

GRANIT SYN HPD SAE 20W-50 is a high quality, super high performance diesel engine oil, intended for use in Euro III to Euro V engines with after-treatment systems (excl. DPF). Engineered with a high quality additive package and synthetic base oils, GRANIT SYN HPD SAE 20W-50 is the reliable backbone of many vehicle fleets, boasting ACEA E7-12 and API CH-4 and CI-4 performance levels, providing wear protection and safeguarding the turbocharger's optimal operation by minimizing deposits formation.

APPLICATIONS

GRANIT SYN HPD SAE 20W-50 utilizes the latest technology to deliver exceptional performance for both on- & off-highway heavy duty applications, as well as for light commercial vehicles and vans requiring API SL-level oil. GRANIT SYN HPD SAE 20W-50 surpasses the strictest specifications of international organizations and OEMs, such as API, ACEA and Daimler.

CHARACTERISTICS-BENEFITS

| CHARACTERISTICS | BENEFITS |
|---|--|
| Enhanced, high performance additive technology. | High levels of wear protection; enhanced turbocharger lubrication, protection; excellent deposits control. |
| Superior engine cleanliness. | Maintaining clean oil galleries and ensuring the oil can flow freely to key areas of the engine. |
| Enhanced TBN retention. | Full biofuel compatibility; outstanding resistance to corrosion; protection against piston ring sticking. |
| Low volatility properties. | Increased viscosity retention. |

PHYSICAL-CHEMICAL CHARACTERISTICS

| GRANIT SYN HPD | METHOD | SAE 20W-50 |
|------------------------------------|------------|------------|
| Density at 15°C, g/cm ³ | ASTM D1298 | 0,885 |
| Dynamic Viscosity, °C /cP | ASTM D5293 | -15/6500 |
| Viscosity, Kinematic (cSt) 100°C | ASTM D445 | 19,8 |
| Viscosity, Kinematic (cSt) 40°C | ASTM D445 | 178,6 |
| Viscosity index | ASTM D2270 | 128 |
| TBN, mgKOH/g | ASTM D2896 | 10,7 |
| Flash point, COC, °C | ASTM D92 | 240 |
| Pour point, °C | ASTM D97 | -27 |

The above mentioned characteristics represent mean values.

SPECIFICATIONS

ACEA E7, E5, E3, B3, B4, A3; API CI-4, CH-4, CG-4, SL; MB 228.3; Global DHD-1; MAN M3275; MTU Cat. 2; Volvo VDS-3; Renault Trucks RLD-2; Mack EO-M Plus; Cummins CES 20076, 20077, 20078; DAF SHPD; Caterpillar ECF-2, ECF-1a; ZF TE-ML 07C; Deutz DQC III-10; Detroit Diesel DDC 93K215
Level: Allison C-4