

## TIDAL POWER HDX 20W-50

### Mineral Heavy Duty Diesel Engine Oil

#### Product Description:

TIDAL POWER HDX 20W-50 is a "Super High Performance Diesel" (SHPD) engine oil providing superior performance and long service potential in high output, high speed turbo charged engines operating under severe conditions.

TIDAL POWER HDX 20W-50 has been formulated with carefully selected additives in mineral base stocks to provide excellent detergency, dispersancy and anti wear performance.

TIDAL POWER HDX 20W-50 is especially formulated to guarantee engine durability where Exhaust Gas Recirculation (EGR) is employed.

TIDAL POWER HDX 20W-50 exceeds the requirements of the major European heavy duty engine manufacturers for extended drain intervals and complies with the strictest European emission limits

TIDAL POWER HDX 20W-50 reduces piston deposits, protects against "Bore Polishing", reduces oil consumption and allows extended drain intervals.

TIDAL POWER HDX 20W-50 is recommended for low emission diesel engines using gas exhaust recirculation systems (EGR) meeting Euro IV emission specifications.

#### Specifications:

Exceeds: ACEA E7/A3/B4, API CI-4/SL, MB 228.3/229.1, MAN M3275, Volvo VDS-3, Mack EO-M Plus, Cummins CES 20072/76/77/78, Caterpillar ECF-1, MTU Type 2

Property:	Test Method:	Typical Values:
SAE Viscosity Grade	SAE J300	20W-50
Density @ 15°C	ASTM D4052	897 kg/m <sup>3</sup>
Kinematic Viscosity @ 40°C	ASTM D7042	152 mm <sup>2</sup> /s
Kinematic Viscosity @ 100°C	ASTM D7042	18.5 mm <sup>2</sup> /s
Viscosity Index	ASTM D2270	120
Flash Point	ASTM D92	215°C
Pour Point	ASTM D97	-24°C
TBN	ASTM D2896	11.5 mgKOH/g
Sulfated Ash	ASTM D874	1.2 wt%