

## TIDAL POWER SHPD 15W-40

### Synthetic Super High Performance Diesel Engine Oil

#### Product Description:

TIDAL POWER SHPD 15W-40 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 SHPD 15W-40 has been formulated with carefully selected additives in synthetic base stocks to provide excellent detergency, dispersancy and anti wear performance. TIDAL POWER SHPD 15W-40 is a new mid SAPS lubricant for mid drain applications & for use in modern low emission engines meeting EURO IV & V exhaust emission standards.

TIDAL POWER SHPD 15W-40 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 SHPD 15W-40 reduces piston deposits, protects against "Bore Polishing", reduces oil consumption and allows extended drain intervals.

TIDAL POWER SHPD 15W-40 is recommended use in vehicles fitted with advanced exhaust aftertreatment systems for the reduction of particulate matter (DPFs) and the oxides of nitrogen (EGR and/or SCR) in combination with low sulphur diesel.

#### Specifications:

Exceeds: ACEA E9/E7, API CJ-4 Plus/CI-4/SM, Caterpillar ECF-3/2/1 $\alpha$ , MTU Oil Cat. 2.1, Volvo VDS-4, Deutz DQC III-05, MB 228.31, MAN M3575, Cummins CES 20081, Mack EO-O Premium Plus, DDC PGOS 93K218, Renault VI RLD-3 compliance.

Property:	Test Method:	Typical Values:
SAE Viscosity Grade	SAE J300	15W-40
Density @ 15°C	ASTM D4052	860 kg/m <sup>3</sup>
Kinematic Viscosity @ 40°C	ASTM D7042	113 mm <sup>2</sup> /s
Kinematic Viscosity @ 100°C	ASTM D7042	14.9 mm <sup>2</sup> /s
Viscosity Index	ASTM D2270	136
Flash Point	ASTM D92	2145°C
Pour Point	ASTM D97	-36°C
TBN	ASTM D2896	8.4 mgKOH/g
Sulfated Ash	ASTM D874	0.97 wt%