

AVIN Marine Series

Heavy Duty Engine Oils



Technical Data Sheet

FORCE 2

ACEA E7, API CI-4/CF/SL, MERCEDES BENZ 228.3, MAN 3275, VOLVO VDS 3, MTU TYPE 2, MACK EO-N/EO-M Plus
CAT ECF1-a, GLOBAL DHD-1, DEUTZ DQC III-10, DETROIT DIESEL 93K215

Description

FORCE 2 is a multigrade super high performance diesel (SHPD) oil allowing for enhanced drain intervals. FORCE 2 complies with the requirements of all major engine OEMs, such as MTU, CAT, DEUTZ and DETROIT DIESEL.

It is a high quality ACEA E7 engine oil suitable for a number of shore and offshore harsh and demanding applications.

Functional Characteristics

- High Detergency/dispersancy characteristics.
- Corrosion protection.
- Oxidation resistance at high temperatures.
- Low temperature performance.
- Enhanced antiwear protection and overall engine protection.

Typical Use

FORCE 2 is recommended for most European four stroke diesel engines, naturally-aspirated or turbocharged, operating under arduous conditions. They can be used in both on or off highway applications, allowing for longer drain intervals.

Typical Characteristics

FORCE 2

SAE	15W-40	20W-50
Specific gravity at 15°C/4°C	0,886	0,895
Viscosity at 40°C, cst	111,0	180,0
Viscosity at 100°C, cst	14,3	19,0
Viscosity Index	130	120
Flash Point (C.O.C.), °C	210	215
Pour Point, °C	-30	-27
TBN	10,6	10,6