

POWER

Marine Trunk Piston Engine Oils specially designed for modern Medium Speed 4-stroke Marine Engines running Intermediate Fuel Oil (IFO) or Heavy Fuel Oil (HFO)

POWER is a trunk piston engine oil product range designed for use in medium speed diesel engines operating on residual fuels in marine, power generation and industrial applications. The superior additive technology used in this oil provides excellent engine cleanliness & wear protection under different operating conditions. This oil is available in SAE 30 & 40 viscosity grades with a TBN (Total Base Number) ranging from 30 to 55. Each grade has got a suffix of 4 digits in which the first two digits indicate the SAE grade and the last two digits indicate the TBN. These oils exhibit a high degree of water tolerance and have better water separation and base retention properties. These oils meet the performance requirements of API CF.

Benefits

- Excellent detergency reduces build-up of soot & black sludge and keeps the engine cleaner
- Acidic by-products are effectively neutralised and the engine is protected from corrosive wear
- Better demulsibility characteristics ensure water separation leading to trouble free operation
- Robust antiwear technology provides protection against piston & linear wear and good gear performance leading to reduction in maintenance costs
- Improved thermo-oxidative stability retards oil degradation facilitating extended oil life

Applications

- Recommended for medium speed diesel engines in marine, power generation and industrial applications operating on residual fuels. Specially recommended for older engines where oil consumption is relatively high
- POWER 3055 & 4055 having a TBN of 55 while POWER 4050 has a TBN of 50. They have been specifically formulated for the engines fitted with operating on high sulphur residual fuels. These oils are also specially recommended for those engines where oil has to stay for a longer time and there is a need for less frequent top up
- POWER 3040 & 4040 having a TBN of 40 are suitable for the engines operating on residual fuels having sulphur content in excess of 3.5%
- POWER 3030 & 4030 having a TBN of 30 are suitable for engines operating on residual fuels having sulphur content in excess of 2.5% and up to 3.5%
- Also recommended for general lubrication of shipboard equipment where specialised lubricants are not required or use of API CF quality oils are adequate

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Specifications

POWER SERIES		3030	4030	3040	4040	3055	4050	4055
Meets the following Specifications	SAE Grade	30	40	30	40	30	40	40
	TBN	30	30	40	40	55	50	55
API CF		✓	✓	✓	✓	✓	✓	✓
Test Parameters	Method	Typical Values						
Viscosity at 100 °C, cSt	ASTM D 445	11.1	14.2	11.3	14.3	11.0	14.8	14.2
Viscosity at 40 °C, cSt	ASTM D 445	99.1	144.3	101.3	144.6	99.7	140.15	145.01
Viscosity Index	ASTM D 2270	91	95	96	96	102	95	95
Flash Point, °C	ASTM D 92	228	244	234	246	232	240	242
Pour Point, °C	ASTM D 97	-18	-18	-18	-18	-18	-18	-18
TBN, mg KOH/g	ASTM D 2896	30	30	40	40	55	50	55
Density at 15°C, Kg/l	ASTM D 1298	0.90	0.90	0.91	0.91	0.95	0.91	0.92
Sulphated Ash, %wt	ASTM D 874	3.9	3.9	5.2	5.2	7.1	6.5	7.1

Above characteristics are mean values given as information. They do not constitute a specification.

Health and safety

This lubricant is unlikely to produce any significant health or safety hazard when used in the application it has been designed for and according to the recommendations provided in the Material Safety Data Sheet. MSDS are available upon request through your sales advisor.

When disposing of used oil, please observe all current regulations and protect the environment.