



ADECO® MARINE

Product Description:

Oils for marine engines ADECO® MARINE are produced from specially selected, high quality, selectively and hydro refined base oils and additive packages. Depending on height of TBN (Total Base Number) are produced in two exploitation levels according to the following SAE viscosity grades:

- ADECO® MARINE XD SAE 30; SAE 40 and SAE 50;
- ADECO® MARINE DP SAE 30 and SAE 40.

ADECO® MARINE XD

Purpose:

Mineral based motor oils, ADECO® MARINE XD, are intended for the lubrication of main and auxiliary ship diesel engines of medium and high speeds burning distillate diesel fuel with sulphur content up to 1,8%. They are used for the lubrication of turbine compressor, gear transmissions, components of the propeller and similar shipboard machines. Provide outstanding protection against corrosion and wet and salty sea atmosphere. Easily release water into the centrifugal separator, prevent sludge and deposits formation that ensure a high degree of engine cleanliness.

Physical and Chemical Properties:

<i>Characteristic, Unit</i>	<i>Referential Values</i>			<i>Method</i>
	30	40	50	
SAE Viscosity Grade	30	40	50	
Density at 15°C, g/cm ³	0,895	0,900	0,905	ASTM D 1298
Kinematic Viscosity at 100°C, mm ² /s	10 – 12	13 – 16	17 – 21	ASTM D 445
Viscosity Index	94	93	92	ASTM D 2270
Flash Point, COC, °C	235	245	250	ASTM D 92
Pour Point, °C	-20	-18	-15	ASTM D 97
Total Base Number, TBN, mgKOH/kg	15	15	15	ASTM D 2896

Meet Specifications:

API CF/CF-2/CD/SF; MAN 270; MTU Type 1; MB 228.0; Kolomna M-14D2; MIL-L-2104C; ZF TE-ML 04 B; Allison C-4.



ADECO® MARINE DP

Purpose:

Multipurpose mineral based motor oils, ADECO® MARINE DP, are intended for the lubrication of cylinders and crankcase systems of medium-sized diesel marine engines without crosshead burning heavy residual diesel fuel with sulfur content above 1.8%. The oils contain special additives that enable the highest oxidation and thermal stability, detergent-dispersant properties and complete protection against corrosion of mechanical assemblies in sea atmospheric conditions and at direct contact of surfaces with seawater. They are suitable for use in reducers and similar shipboard machines.

Physical and Chemical Properties:

<i>Characteristic, Unit</i>	<i>Referential Values</i>		<i>Method</i>
SAE Viscosity Grade	30	40	
Density at 15°C, g/cm ³	0,910	0,915	ASTM D 1298
Kinematic Viscosity at 100°C, mm ² /s	11 – 12	14 – 15	ASTM D 445
Viscosity Index	94	93	ASTM D 2270
Flash Point, COC, °C	235	245	ASTM D 92
Pour Point, °C	-20	-18	ASTM D 97
Total Base Number, TBN, mgKOH/kg	30	30	ASTM D 2896

Meet Specifications:

API CF/CF-2/CD/SF; MAN 270; MTU Type; MB 228.0; Kolomna M-14D2; MIL-L-2104C; ZF TE-ML 04 B; Allison C-4.

Packaging: 180 kg