



PRODUCT DATA SHEET

ADNOC Voyager Marine

DESCRIPTION

ADNOC Voyager Marine is a series of high performance diesel engine oils formulated with high quality base oils and advanced additives that provide balanced alkalinity and detergency/dispersancy even for engines burning high aromatic/asphaltenes content and high sulfur residual fuels. It also provides outstanding residual fuel compatibility characteristics for excellent engine cleanliness, especially in crankshaft area, ring belt and piston under crowns. It provides excellent high temperature oxidation and thermal stability, low volatility, high load carrying properties and corrosion protection.

APPLICATIONS

ADNOC Voyager Marine is recommended for high-output, medium-speed, four-stroke trunk-piston diesel engines running with distillate and low/high sulfur fuels heavy fuel (LSFO & HSFO). They are recommended for use in main propulsion and auxiliary four stroke diesel engines fitted on sea vessels, coastal and river ships and land based power plants. It can also be used in deck machinery and other marine applications requiring SAE 30 or 40 viscosity grades. It is available in a wide range of TBNs what makes it a complete solution for different fuel types. 12-20 BN are recommended for engines operating on distillate fuel. 20-55 BN are recommended for engines operating on HFO or in LNG/HFO dual fuel mode.

BENEFITS

- Protects against the corrosive effects of high-sulfur fuels
- Excellent control on high temperature deposits
- High oxidation stability provides better viscosity control
- Effective protection against corrosion and wear
- Low oil consumption
- Superior control of sludge and lacquer formation
- Long oil service life helps to reduce maintenance and operational costs
- Excellent alkalinity retention
- Effective performance in handling contamination with water

PERFORMANCE LEVEL

API CF
FZG 11th stage pass
Wärtsilä (Approved)
MAN Energy Solutions

Caterpillar MaK
Yanmar
Daihatsu

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PRODUCT TYPICAL CHARACTERISTICS

Properties	Units	312	412	315	415	320	420	424	Test Methods
		SAE							
		30	40	30	40	30	40	40	
Density @15°C	kg/L	0.896	0.915	0.905	0.916	0.909	0.915	0.911	ASTM D1298
Kinematic Viscosity @40°C	mm ² /s	101.0	141.0	102.0	143.0	105.0	144.0	142.0	ASTM D445
Kinematic Viscosity @100°C	mm ² /s	11.20	14.30	11.40	14.40	11.20	14.40	14.00	ASTM D445
Viscosity Index	-	101	103	102	105	103	104	95	ASTM D2270
Flash Point, COC	°C	230	230	230	230	260	260	260	ASTM D92
Base Number	mg KOH/g	12	12	15	15	20	20	24	ASTM D2896
Sulfated Ash	%mass	1.5	1.5	1.8	1.8	2.4	2.4	3.2	ASTM D874

Properties	Units	330	430	340	440	450	355	455	Test Methods
		SAE							
		30	40	30	40	40	30	40	
Density @15°C	kg/L	0.908	0.915	0.905	0.916	0.903	0.909	0.915	ASTM D1298
Kinematic Viscosity @40°C	mm ² /s	101.0	141.0	102.0	143.0	142.0	105.0	144.0	ASTM D445
Kinematic Viscosity @100°C	mm ² /s	11.20	14.30	11.40	14.40	14.00	11.20	14.40	ASTM D445
Viscosity Index	-	101	103	102	105	95	103	104	ASTM D2270
Flash Point, COC	°C	255	265	260	260	260	260	260	ASTM D92
Base Number	mg KOH/g	30	30	40	40	50	55	55	ASTM D2896
Sulfated Ash	%mass	3.6	3.6	4.8	4.8	6.0	6.5	6.5	ASTM D874

Minor variations in product typical test data are to be expected in normal manufacturing.

Always follow the Original Equipment Manufacturer's recommendation (OEM) for the equipment operating conditions, product specification, drain interval and customer's maintenance practices.

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