



أدنوك
ADNOC

ADNOC LUBRICANTS
PRODUCT CATALOG

MARINE

ADNOC Lubricants | Product Catalog

ADNOC VOYAGER MARINE OIL - MCL

540; 555; 570; 5100

DESCRIPTION

ADNOC Voyager Marine Oil is a series of superior, high-alkaline, diesel engine oils, formulated from high-quality base stocks and selected additives to provide optimum oxidation resistance at high temperatures and protection against ring and liner wear. It also provides high level of detergency, piston cleanliness, alkalinity retention and load-carrying ability.

APPLICATIONS

ADNOC Voyager Marine Oil series is recommended for cylinder lubrication of slow-speed, two-stroke crosshead diesel engines.

ADNOC Voyager Marine Oil 540 is IMO 2020 ready and is designed for engines burning fuels with Sulfur content below 0.5%mass.

ADNOC Voyager Marine Oil 555, 570 and 5100 versions are recommended for engines equipped with scrubber after treatment systems, burning high-Sulfur fuel oil with Sulfur content ranging from 0.5 to 3.5%mass.

BENEFITS

- Protects against the corrosive effects of high-sulfur fuels
- Excellent high temperature oxidation resistance and thermal stability
- Effective protection against rust, corrosion, wear and deposits formation
- Extended oil life and reduced maintenance costs
- Superior alkalinity retention

PERFORMANCE LEVEL

- MAN B&W two-stroke engines
- Mitsubishi Heavy Industries (MHI-MME) UE Series 2-stroke Diesel Engines

PRODUCT TYPICAL CHARACTERISTICS

Properties	Units	540	555	570	5100	Test Methods
		SAE				
		50				
Density @15°C	kg/L	0.890	0.904	0.904	0.904	ASTM D1298
Kinematic Viscosity @40°C	mm²/s	214.7	260.0	260.0	245.5	ASTM D445
Kinematic Viscosity @100°C	mm²/s	18.50	20.90	20.90	19.50	ASTM D445
Viscosity Index	-	96	95	95	90	ASTM D2270
Pour Point	°C	-9	-9	-9	-9	ASTM D97
Flash Point, COC	°C	246	250	250	250	ASTM D92
Base Number	mg KOH/g	40	55	70	100	ASTM D2896

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

Product(s) manufactured in the United Arab Emirates by ADNOC Distribution.

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

ADNOC VOYAGER MARINE OIL - TPEO

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

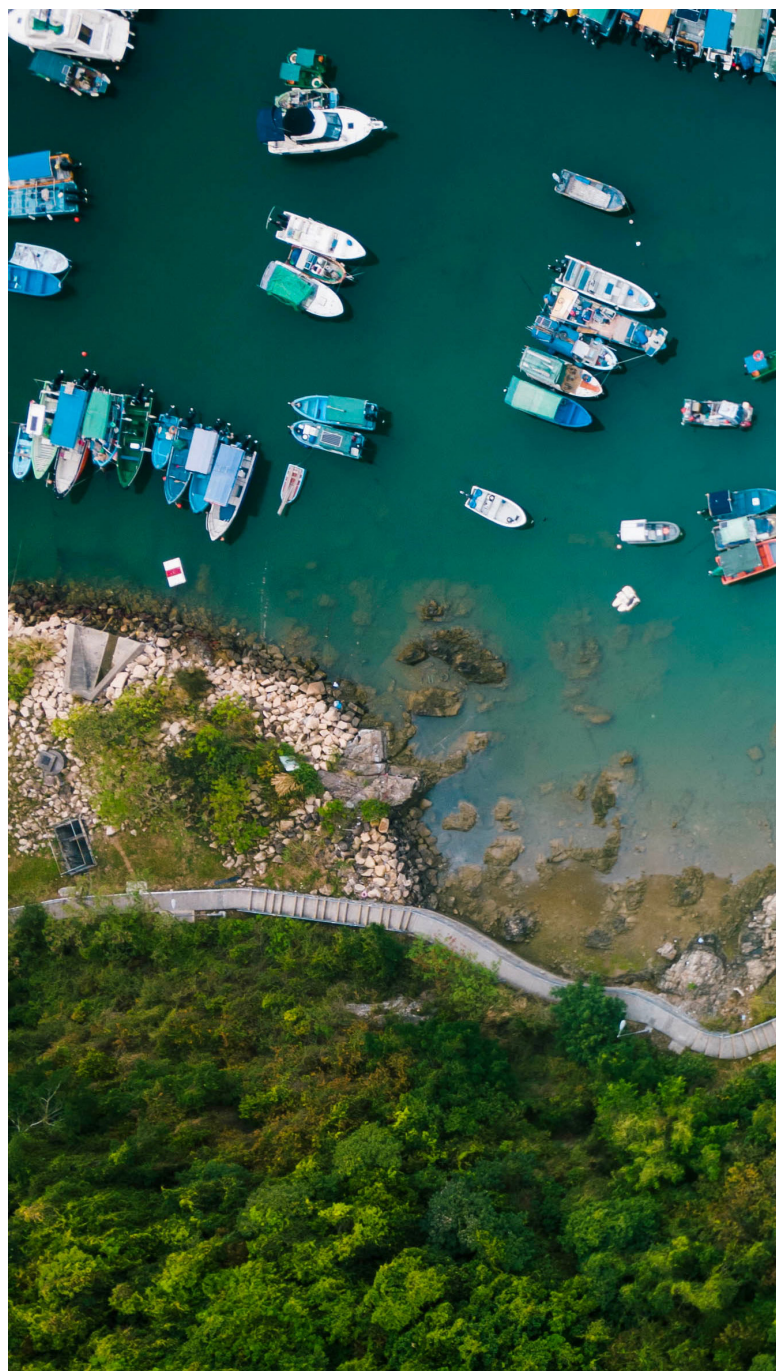
ADNOC Voyager Marine is recommended for high-output, medium-speed, four-stroke trunk-piston diesel engines running with distillate and low/high sulfur fuels heavy fuel (LSFO & HSFO). They are recommended for use in main propulsion and auxiliary four stroke diesel engines fitted on sea vessels, coastal 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



ADNOC VOYAGER MARINE OIL - TPEO

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	mm²/s	101.0	141.0	102.0	143.0	105.0	144.0	142.0	ASTM D445
Kinematic Viscosity @100°C	mm²/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	mm²/s	101.0	141.0	102.0	143.0	142.0	105.0	144.0	ASTM D445
Kinematic Viscosity @100°C	mm²/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.

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SPECIALTIES

ADNOC MOULD OIL KW

DESCRIPTION

ADNOC MOULD OIL KW is an effective mold release compounds for cast concrete products. Formulated from highly refined mineral oils, it produces a high quality concrete finish resisting blowholes and providing uniform surface finish.

APPLICATIONS

- Ready to use packs – no dilution required.
- Manual fine hair brush application or spray application through fine mist.
- Spray application should only be with a nozzle giving a fine mist.
- Over application may result in surface retardation.

BENEFITS

- Excellent performance in the prefabrication of aerated concrete with metal forms.
- High coverage, Water repellent; rust prevention

PRODUCT TYPICAL CHARACTERISTICS

Properties	Units	ADNOC MOULD OIL KW	Test Methods
Colour		L5.0	ASTM D1500
Density @ 29.5 °C	kg/L	0.892	ASTM D1298
Kinematic Viscosity @ 40°C	mm ² /s	155-165	ASTM D445
Kinematic Viscosity @ 100°C	mm ² /s	14.5	ASTM D445
Viscosity Index	-	Min 85	ASTM D2270
Total Acid Number mg	KOH/gm	Min 3.0	ASTM D 664

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ADNOC DEGREASER HD

DESCRIPTION

ADNOC Degreaser HD is a low foaming, solvent free, VOC free and environmentally friendly rust inhibited non emulsifiable quick break aqueous cleaning fluid. It provides efficient cleaning, leaving surfaces clean and oil free, offering no hazard to painted surfaces, acrylics, non-ferrous metals and soft sealants.

APPLICATIONS

ADNOC Degreaser HD is designed for use in spray wash systems such as tunnels, parts washers, ultrasonic cleaning machines and steam cleaners.

BENEFITS

- Suitable for use in spray wash systems such as tunnels, parts washers, ultrasonic cleaning machines and steam cleaners.
- Can be used at pressures up to 10 bar.
- Dilute between 2 – 5% depending upon the degree of soiling and the level of corrosion inhibition required.
- Dilutions below 1:1 are not classified as hazardous

APPLICATIONS

- Rust Inhibited - AMS 1526B
- Separator Friendly - Meets pr EN 858

PRODUCT TYPICAL CHARACTERISTICS

Properties	Units	Typical
Density @15°C	kg/L	1.03
VOC Content	-	None
pH	-	11.0
BOD/COD 5 day	%	72%

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   @almailengroup

P.O.Box 4692, Shuwaikh, Kuwait
info@almailengroup.com

  @adnocgroup

PO Box 898, Abu Dhabi, UAE
adnoc.ae

الميلم للزيوت ومواد التشحيم  ALMAILEM LUBRICANTS

مجموعة الميلم  ALMAILEM GROUP

شركة بترول أبوظبي الوطنية
Abu Dhabi National Oil Company