



PRODUCT DATA SHEET

ADNOC Voyager Railroad SAE 20W-40

DESCRIPTION

ADNOC Voyager Railroad is a premium, high-performance, zinc-free, non-chlorinated, heavy-duty crankcase lubricant, formulated with high quality base oils and advanced additives that provide superior wear protection, enhanced oxidation performance, improved oil consumption control and high alkalinity/TBN retention. Its optimized detergent system is designed for use with low and ultra-low sulfur diesel and its environmentally friendly formulation, with reduced sulfated ash, helps in reducing the particulate matter emission and allows extended drain intervals.

APPLICATIONS

ADNOC Voyager Railroad is recommended for use in modern and older model EMD and GE engines burning low and ultra-low sulfur diesel fuel (≤ 500 ppm) in inland marine, railroad and power generation applications.

BENEFITS

- **Excellent engine cleanliness and sludge control**
- **Reduced sulfated ash and enhanced particulate matter emission control**
- **Formulated for use with low and ultra-low sulfur diesel**
- **Outstanding bearing and yellow metal wear control**
- **Excellent oxidation stability**
- **Superior alkalinity retention**
- **Excellent protection of silver-coated and turbocharger bearings of EMD engines**
- **Low oil consumption**
- **Extended drain intervals**
- **Maximizes engine durability**

PERFORMANCE LEVEL

API CF

General Electric (GE) Gen 4 Long Life

LMOA Generation 6 and 5

Progress Rail (EMD) - EMD 567, 645 and 710 engines EPA Tier 3 and previous

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PRODUCT TYPICAL CHARACTERISTICS

Properties	Units	SAE	Test Methods
		20W-40	
Density @15°C	kg/L	0.876	ASTM D1298
Kinematic Viscosity @40°C	mm ² /s	113	ASTM D445
Kinematic Viscosity @100°C	mm ² /s	13.75	ASTM D445
Viscosity Index	-	120	ASTM D2270
CCS Viscosity	cP	6500	ASTM D5293
- CCS Temperature	°C	-15	
Pour Point	°C	-27	ASTM D97
Flash Point, COC	°C	230	ASTM D92
Base Number	mg KOH/g	9	ASTM D2896

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.
 Rev: 25-Nov-2021