

Technical Data Sheet



DEX QM MOTOR SAE40

Lubricant for medium-speed marine diesel engines running on distillate fuels

DEX QM MOTOR SAE40 is a high quality, multifunctional diesel engine lubricant which has been specially designed for the most severe service in main propulsion auxiliary marine trunk piston engines burning up to 1% Sulphur distillate and biofuels.

The newly formulated **DEX QM MOTOR SAE40** has also been *optimized FZG 13* for use in non-engine applications which are typically found on board such as gearboxes, clutches and stern tubes.

Main Applications



Highly rated, medium speed, main propulsion & auxiliary trunk-piston stationary & marine diesel engines.

DEX QM MOTOR SAE40 will also perform well in smaller high-speed engines typically used in fleets which operate under arduous conditions and have small sump sizes. Turbochargers, oil filled stern tubes and variable pitch propellers. Deck machinery & other marine applications requiring SAE 40 viscosity oils.

Performance, Features & Benefits

EXTENDED OIL LIFE

DEX QM MOTOR SAE40 offers excellent resistance to oxidation and thermal degradation and will extend the oil life, especially when used in demanding engines that operate under severe stress conditions.

PROTECTION OF THE ENGINE & SYSTEM EFFICIENCY

DEX QM MOTOR SAE40 helps extend the lifespan of the engine by reducing the build-up of deposits in the piston ring and cylinder liner, thereby reducing the risk of jammed piston rings and damages. In addition, the new formulation is designed (FZG 13) to minimize varnish formation, resulting in better control of oil consumption and lower operating costs, better tolerance to overloading or faulty combustion and provides a better margin of protection for machines under heavy load.



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Specifications, approvals and recommendations

DEX QM MOTOR SAE40 exceeds the following performance

API CF

Typical Analysis*

Properties		Unit	Method	Typical Value
SAE grade (viscosity class)				40
Kinematic Viscosity	@40°C	mm ² /s	ASTM D445	120
Kinematic Viscosity	@100°C	mm ² /s	ASTM D445	14
Viscosity Index			ASTM D2270	119
Density	@15°C	kg/m ³	ASTM4052	890
Flash Point COC, min		°C	ASTM D93	230
Pour Point		°C	ASTM D97	-21
FZG Fail Load Stage, min			ISO 14635-1	13
Base Number		mgKOH/g	ASTM D2896	13.2

*These characteristics are typical of current production. Whilst future production will conform to DEX's specification, variations in these characteristics may occur.