

TECHNICAL PRODUCT SHEET

MAX S-3

10W, 30, 40, 50



DESCRIPTION

MAX S-3 are premium quality monograde lubricants formulated with detergent additives and highly refined mineral oils to improve engine cleanliness and lifecycle. They are primarily recommended for the lubrication of naturally aspirated and turbocharged diesel or gasoline, older technology, engines.

APPLICATIONS

MAX S-3 series consists of general-purpose engine oils suitable for normally aspirated and turbocharged diesel or gasoline engines operating in on-/off-highway applications, such as construction site machinery and earthmoving and agricultural equipment where the sulfur content in the fuel is >0.5%. MAX S-3 also complies with the strict CAT TO-2 requirements, so it can be used in heavy duty transmissions where a lubricant of this quality level is required.

SPECIFICATIONS

CCMC	D2/G2/PD-2	US Military	MIL-L-2104E
API	CD	US Military	MIL-L-46152B
API	SF	CATERPILLAR	TO-2

PROPERTIES

High alkalinity reserves ensure long-term stability, delivering excellent protection against rust and oxidation. The formulation resists oil thickening while providing strong detergency and dispersancy for reliable engine cleanliness and performance.

BENEFITS

MAX S-3 formula provides strong engine corrosion protection in high-sulfur fuel conditions, ensuring smooth, clean operation. It delivers durable performance with effective metallic surface deposit control, improving overall engine cleanliness and contributing to reduced operating costs in severe service environments.



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PHYSICAL-CHEMICAL CHARACTERISTICS

MAX S-3	METHOD	SAE 10W	SAE 30	SAE 40	SAE 50
Density at 15°C, g/cm ³	ASTM D4052	0.877	0.887	0.889	0.894
Dynamic viscosity, °C/cP	ASTM D5293	-25°C/6,500	-	-	-
Viscosity, Kinematic (cSt) 100°C	ASTM D445	6.0	12.2	14.2	18.7
Viscosity, Kinematic (cSt) 40°C	ASTM D445	35.6	109	140	212
Viscosity index	ASTM D2270	116	102	99	98
TBN, mgKOH/g	ASTM D2896	5.6	5.6	5.6	5.6
Flash point, COC, °C	ASTM D92	212	231	240	249
Pour point, °C	ASTM D97	-33	-24	-24	-18

The abovementioned characteristics represent mean values.

STORAGE

All packages must be stored in covered, well-ventilated areas. If outdoor storage cannot be avoided, barrels must be placed horizontally to prevent water ingress and to protect labels and markings from damage. Products must not be stored at temperatures above 60 °C and must not be exposed to direct sunlight, freezing conditions, or extreme temperature fluctuations.



HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).



USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.

