

Product Description

Extreme MAKO TERRA SPORT Fully Synthetic Engine Oil SAE 5W-30 (API CK-4/SN) is a high-performance, fully synthetic engine oil formulated with advanced base oils and balanced additive system to deliver reliable protection and consistent performance for modern diesel and gasoline engines.

Extreme MAKO TERRA SPORT provides excellent protection against wear, oxidation, thermal degradation, and soot-related thickening, while maintaining engine cleanliness and lubricant stability across a wide range of operating conditions. It supports improved fuel efficiency, helps control deposits, and contributes to extended engine service life, even under severe operating environments such as high temperature, heavy load, and stop-and-go service.

Extreme MAKO TERRA SPORT is suitable for use in naturally aspirated and turbocharged engines operating in on-highway, light commercial, and mixed fleet applications. It is recommended for modern engine technologies equipped with turbochargers, exhaust gas recirculation (EGR), and aftertreatment systems where API CK-4 and API SN performance levels are specified.

Specification and Requirements

- API CK-4/SN
- ACEA E6-16/ E7-16/ E9-16
- JASO DH-2 (IP)
- DAIMLER MB 228.31, MB 228.51/52
- MAN M3775
- VOLVO VDS-4.5
- RENAULT TRUCKS RLD-3
- MTU Type 3.1
- DEUTZ DQC IV-18 LA
- CUMMINS CES 20086
- MACK EOS-4.5
- DDC DFS93K2222
- SCANIA
- CATERPILLAR ECF-3
- FORD WSS-M2C213-A
- IVECO 18-1804 TLS E9
- DAF

Product Sizes

- ☐ 200 Liters ☐ 18 Liters ☒ 4 Liters ☒ 1 Liter

Main Applications



- Modern diesel engines used in on-highway commercial vehicles, including trucks and delivery fleets requiring API CK-4 performance level lubricants
- Gasoline engines, including modern passenger cars, sport utility vehicles (SUVs), and high-performance gasoline engines that require SAE 5W-30 viscosity grade meeting API SN performance level, particularly those operating under high temperature, high load, and demanding driving conditions
- Turbocharged and direct-injection engines, both diesel and gasoline, including those equipped with advanced emission control and aftertreatment technologies such as exhaust gas recirculation (EGR), diesel particulate filters (DPF), gasoline catalytic converters, and other emission control systems, where applicable. These engines may operate under demanding conditions requiring reliable performance, fuel efficiency, and consistent engine responsiveness
- Mixed fleet operations where a single lubricant is required for both diesel and gasoline engines to simplify inventory management and maintenance practices
- High-performance and high-demand operating environments, including long-distance transport, frequent stop-and-go service, towing, and high ambient temperature operation

Performance Benefits

- **Enhanced Wear Protection.** Helps protect critical engine components against wear and scuffing under high load and severe operating conditions, contributing to longer engine life.
- **Excellent Oxidation and Thermal Stability.** Resists oil breakdown at high operating temperatures, maintaining viscosity stability and reducing sludge and varnish formation.
- **Effective Soot and Deposit Control.** Controls soot-related thickening and minimizes deposit formation, helping maintain engine cleanliness and consistent performance.
- **Improved Fuel Efficiency.** Supports efficient engine operation through optimized viscosity characteristics, helping reduce fuel consumption when compared with higher viscosity grades, where applicable.
- **Extended Drain Capability.** Maintains lubricant performance and protection over extended service intervals when supported by proper maintenance practices and operating conditions.
- **Reliable Protection Under Severe Service Conditions.** Performs consistently in demanding environments such as high temperature, heavy load, frequent stop-and-go driving, and mixed fleet operations.
- **Compatibility with Modern Engine Technologies.** Suitable for engines equipped with turbochargers, exhaust gas recirculation (EGR), and aftertreatment systems requiring API CK-4 and API SN performance levels.

Test Physical Characteristics

Test Parameter	Test Method	Specification
Density @15°C, kg/l	ASTM D4052	0.8572
Kinematic Viscosity @40°C, cSt	ASTM D445	71.17
Kinematic Viscosity @100°C, cSt	ASTM D445	11.98
Viscosity Index	ASTM D2270	166
Total Base Number, mgKOH/g	ASTM D2896	9.9
Flash Point, COC, °C	ASTM D92	216
Pour Point, °C	ASTM D97	-39

Health and Safety

Based on available information, this product is unlikely to produce any significant hazard on health when used for the recommended application provided in the Material Safety Data Sheet (MSDS). Guidance on Health and Safety is available on the appropriate Material Safety and Data Sheet, which can be obtained from <http://www.seaoil.com.ph>

Environment

Bring used oil to a permitted container and place. Do not throw it into the drain or soil.