

TECHNICAL PRODUCT SHEET

EVO M-FE 0W—20



DESCRIPTION

EVO M-FE is a top-tier, 100% synthetic, very-low-viscosity engine oil engineered with TriboACT[®] Formula technology to deliver maximum performance and wear protection under extreme operating conditions. Its advanced mid-SAPS chemistry ensures stable rheological behavior, supporting reliable operation of modern high-performance engines, hybrid powertrains, and sensitive after-treatment systems designed to meet the latest European emissions standards. The formulation provides enhanced fuel-efficiency performance, proven bio-fuel compatibility, superior cleanliness, robust friction and wear control, and excellent sludge resistance. Its optimized low-viscosity profile ensures exceptional pumpability and lubrication during cold starts, making it ideal for engines— including mild-hybrid and plug-in-hybrid configurations—requiring highly fuel-efficient, low-consumption lubricants with outstanding long-term stability.

APPLICATIONS

EVO M-FE is an advanced, environmentally compliant crankcase lubricant formulated for the latest gasoline and light-duty diesel engines equipped with GPF, DPF, and TWC aftertreatment systems. It is engineered to meet the stringent operational requirements of modern OEM powertrains, including Mercedes-Benz hybrid architectures utilizing M256, M264, and OM654 engines—also in 48V integrated-electric configurations. It is equally suited for Jaguar-Land Rover gasoline and diesel engines, whether standalone or operating within mild-hybrid or PHEV systems, where superior low-temperature fluidity and high fuel-efficiency performance are critical. The formulation ensures stable protection, optimal aftertreatment compatibility, and reliable operation across a wide range of ambient conditions. Always consult the vehicle manufacturer's documentation for the correct specification or part-number requirements.

SPECIFICATIONS

| | | | |
|------|-------------------------------|-------------------|--------------------------|
| API | SN | FORD | WSS-M12R536-A |
| ACEA | C5 | Jaguar-Land Rover | STJLR 51.5122 (Approved) |
| MB | MB-Approval 229.71 (Approved) | Jaguar-Land Rover | STJLR 03.5006 |

PROPERTIES

EVO M-FE is a 100% synthetic, TriboACT[®]-enhanced formulation engineered for superior low-temperature fluidity and rapid lubrication under cold-start conditions. Its low-viscosity, advanced mid-SAPS chemistry meets the stringent performance requirements of MB 229.71 and STJLR 51.5122, while its low-evaporation-loss profile ensures enhanced volatility control and long-term lubricant stability.



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BENEFITS

EVO M-FE provides advanced wear and deposit control, delivering protection beyond conventional test limits for camshaft and tappet components. Its superior cold-start performance ensures rapid oil circulation and reduced start-up stress, while high after-treatment compatibility supports extreme fuel-efficiency and lower CO₂ output. The low-consumption formulation minimizes volatility-related losses, reducing the need for top-ups and maintaining long-term system cleanliness.

PHYSICAL-CHEMICAL CHARACTERISTICS

| EVO M-FE | METHOD | SAE 0W-20 |
|------------------------------------|------------|-------------|
| Density at 15°C, g/cm ³ | ASTM D4052 | 0.840 |
| Dynamic viscosity, °C/cP | ASTM D5293 | -35°C/4,400 |
| Viscosity, Kinematic (cSt) 100°C | ASTM D445 | 8.3 |
| Viscosity, Kinematic (cSt) 40°C | ASTM D445 | 42.9 |
| Viscosity index | ASTM D2270 | 173 |
| TBN, mgKOH/g | ASTM D2896 | 8.0 |
| Flash point, COC, °C | ASTM D92 | 206 |
| Pour point, °C | ASTM D97 | -42 |
| NOACK Volatility loss, % | ASTM D5800 | 11.3 |
| Sulphated ash | ASTM D874 | 0.78 |
| HTHS viscosity@150°C, cP | ASTM D4683 | 2.7 |

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.

