

Automotive lubricants. Heavy engine vehicle.

## Traction Max 5W-20 FE



### Key information

- 100% synthetic lubricant with low SAPS content and very high fuel economy properties.
- Compatible with gas after-treatment systems DPF/SCR/EGR.
- Euro VI engines, Stage V, Tier 4.
- Compatible with alternative fuels (gas - CNG-, biodiesel).



Low SAPS



Fuel Economy



Long Drain

### › Manufacturer specifications

- MAN M 3977
- Scania LDF-5

### › Use

- Especially recommended for use in the latest Euro VI-d truck models from MAN and Scania, equipped with EGR and SCR+CRT systems, that require M 3977 specifications or LDF-5 specifications, respectively.
- Designed for vehicles equipped with exhaust gas after-treatment systems, such as particulate filters (DPF), continuous regeneration traps (CRT) and AdBlue selective catalytic reduction systems (SCR) that require low ash oils (SAPS), optimizing their service life and saving on maintenance.
- TRACTION MAX 5W-20 FE should not be used in engines that require previous specifications from MAN or Scania, nor higher viscosity grades.
- It is recommended to follow the indications of the vehicle manual regarding viscosity and oil specifications, as well as its drain interval according to the amount of sulfur of the fuel used.

### › Benefits

- Thanks to the technology used and its low HTHS viscosity, it offers high fuel economy properties, thus contributing to the reduction of CO<sub>2</sub> emissions.
- It provides outstanding results in the most stringent engine cleanliness tests (Daimler OM471), significantly reducing formation of deposits and sludge, providing long intervals between oil changes and ensuring longer engine service life.
- Its high viscosity index allows easy start up at low temperatures and a sufficient oil film in hot climates, protecting the engine from excessive wear at most crucial times it is used.
- Its high oxidation/thermal degradation stability makes it suitable for high temperature protection of modern turbocharged engines.

The typical values of the characteristics appearing in the table are average values given for guidance purposes only and do not constitute a guarantee. These values may be modified without any prior warning.

## › Physical and chemical properties

Characteristic	Units	Method	Traction Max 5W-20 FE
<b>SAE Grade</b>	-	-	<b>5W-20</b>
Density at 15°C	kg/l	ASTM D 4052	0.859
Viscosity at 100°C	cSt	ASTM D 445	8.13
Viscosity at 40°C	cSt	ASTM D 445	47
Viscosity Index	-	ASTM D 2270	146
CCS Viscosity at -30°C	cP	ASTM D 5293	6485
HTHS Viscosity at 150°C	cP	ASTM D 4683	2.7
Pour Point	°C	ASTM D 5950	-40
Flash Point	°C	ASTM D 92	225
Base number, TBN	mg KOH/g	ASTM D 2896	13.9
Sulfated ash	% (m/m)	ASTM D 874	0.90

## › Health & safety and environment

A Material Safety Data Sheet providing information on product hazards, handling precautions, first aid measures, and relevant environmental data is available for this product as per applicable legislation.