

G-Profi MSI 5W-40

Heavy Duty Diesel Engine Oil



Turbocharged engine



Up to Euro 3



Exhaust Gas Recirculation



Selective catalyst reduction



High temperature deposits control



Protection against wear



Semisynthetic

G-Profi MSI 5W-40 is heavy duty diesel engine oil, designed to protect under the full range of pressures and temperatures found in modern engines. Formulated in semisynthetic base oils they provide improved cold start fluidity and circulation, while also protecting components under severe load, when running at high temperatures. The use of modern additive chemistry ensures engine cleanliness and extended component life. This makes it the ideal choice for operators of heavy-duty on- and off-highway vehicles. G-Profi MSI 5W-40 has wide specification profile and can be used for mixed fleets, including gasoline engines and cars.

Applications



- Wide range of turbocharged and non-turbocharged diesel engines requiring API CI-4 performances and meeting Euro 4 emission standard. Suitable for engines with exhaust after-treatment devices (EGR, SCR). Not applicable for engines fitted with diesel particulate filters (DPF)
- Heavy duty diesel engines from European, US and Japanese manufacturers of commercial vehicles, buses, trucks
- Off-road application, including agricultural, construction, mining equipment
- Gasoline engines where API SL (or lower) performance is required

Features	Advantages and Potential Benefits
Excellent TBN retention	Higher corrosion protection to extend overhaul intervals
Shear stable	The extremely stable viscosity modifier controls the viscosity of the oil throughout its service life minimizing wear
Increased thermal and oxidation stability	Extended drain intervals and engine life
Low temperature fluidity	Wear protection during cold starts to prolong engine life
High detergent properties	Lower high temperature deposits formation to reduce maintenance costs

Meets the requirements:

- ACEA E7
- API CI-4/SL
- MB 228.3
- MAN M 3275
- Volvo VDS-3

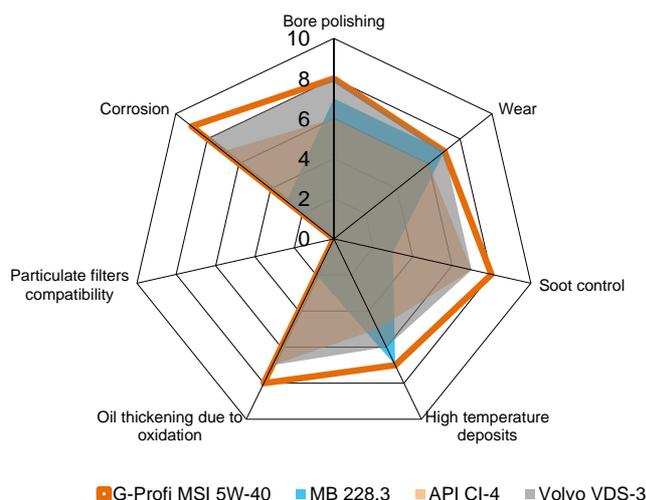
Typical Characteristics

Properties	Method	G-Profi MSI 5W-40
SAE Viscosity Grade	SAE J300	5W-40
Kinematic Viscosity @ 40°C, mm ² /s	ASTM D445	91,4
Kinematic Viscosity @ 100°C, mm ² /s	ASTM D445	14,7
Viscosity Index	ASTM D2270	168
Flash Point (COC), °C	ASTM D92	233
Pour Point, °C	ASTM D97	-41
Density @15°C, kg/m ³	ASTM D4052	863
Total Base Number, mg KOH/g	ASTM D2896	11
Sulphated Ash, wt%	ASTM D874	1,3

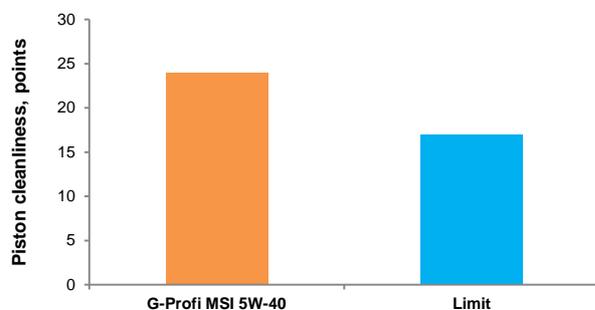
G-Profi MSI 5W-40 engineered to meet or exceed the requirements of many leading industry and car manufacturers' standards.

G-Profi MSI 5W-40 outperform following standards:

- MB 228.3
 - better soot control
 - better corrosion protection
- API CI-4
 - wear protection 15% better
 - lower piston high temperature deposits
- Volvo VDS-3
 - oxidation stability 15% better
 - soot control 15% better



High temperature deposits*



* OM501LA

Health, Safety & Environment

Information is provided for products in the relevant Safety Data Sheet (SDS). This provides guidance on potential hazards, precautions and first-aid measures, together with environmental effects and disposal of used products. SDS's are available upon request through your sales contract office. This product should not be used for purposes other than its intended use.

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Meets the requirements:

- API CI-4/SL (licensed)
- ACEA E7
- Caterpillar ECF-1a
- Cummins CES 20077
- Detroit Diesel DDC 93K215
- JASO DH-1
- Komatsu
- MACK EO-M Plus/EO-N

Approvals:

- Cummins CES 20076
- Deutz DQC III
- MAN M 3275-1
- MB 228.3
- MTU Cat. 2
- Renault Trucks RLD/RLD-2
- Volvo VDS-3
- KAMAZ
- YaMZ

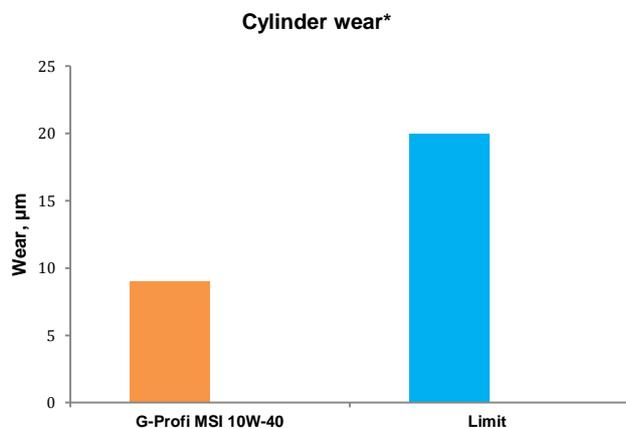
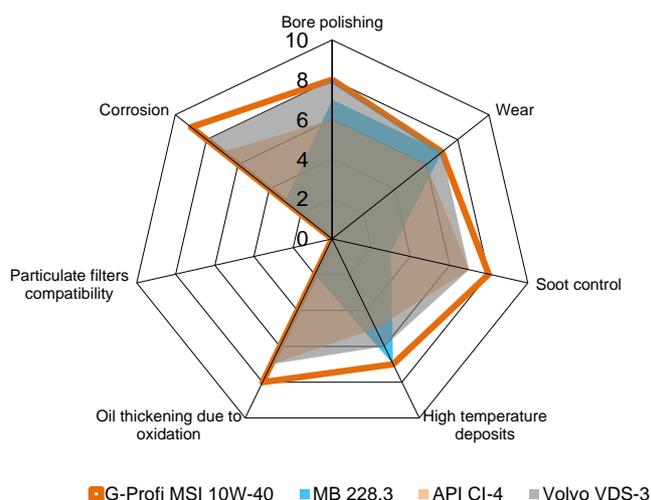
Typical Characteristics

Properties	Method	G-Profi MSI 10W-40
SAE Viscosity Grade	SAE J300	10W-40
Kinematic Viscosity @ 40°C, mm ² /s	ASTM D445	110
Kinematic Viscosity @ 100°C, mm ² /s	ASTM D445	15
Viscosity Index	ASTM D2270	149
Flash Point (COC), °C	ASTM D92	228
Pour Point, °C	ASTM D97	-38
Density @15°C, kg/m ³	ASTM D4052	875
Total Base Number, mg KOH/g	ASTM D2896	11
Sulphated Ash, wt%	ASTM D874	1,3

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* Mack T12

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