

G-Profi MSH 10W-40

Heavy Duty Diesel Engine Oil



Turbocharged engine



Up to Euro 3



Excellent TBN retention



Engine cleanliness



Semisynthetic

G-Profi MSH 10W-40 is high performance diesel engine oils that provide proven protection of diesel engines operating in severe conditions for both on and off-highway applications. G-Profi MSH 10W-40 use selective additive system to give excellent protection against wear, deposits and heat. G-Profi MSH 10W-40 is designed for diesel-powered commercial vehicles for both on- and off-highway applications.

Applications



- Wide range of turbocharged and non-turbocharged engines requiring API CH-4 performances and meeting Euro 3 emission standard
- Heavy duty diesel engines from European, US and Japanese manufacturers in heavy duty commercial vehicles, buses, trucks, plant and off-road agricultural, construction, mining equipment
- Gasoline engines where API SL (or lower) performance is required

Features	Advantages and Potential Benefits
Enhanced acid control system	Excellent performance additives help to protect against corrosion from acidic products formed as fuel burns
High dispersant properties	Outstanding protection against oil thickening for long drain intervals
Protection against wear	Excellent performance in both low and high temperature service.
High detergent properties	Less high temperature deposits formation to reduce maintenance costs
Shear stable	Stable viscosity index improver controls the viscosity of the oil throughout its service life for minimizing wear
Excellent corrosion protection	Cleaner engines and longer engine life

Meets the requirements:

- API CH-4/SL
- Deutz DQC II
- Komatsu
- MAN M 3275
- MB 228.3
- MTU Cat. 2
- Renault Trucks RD, RD-2
- Volvo VDS-2

Approvals:

- KAMAZ
- YaMZ

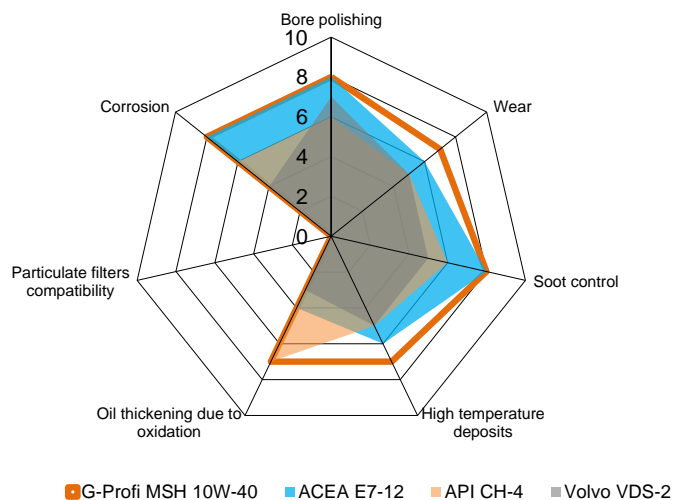
Typical Characteristics

Properties	Method	G-Profi MSH 10W-40
SAE Viscosity Grade	SAE J300	10W-40
Kinematic Viscosity @ 40°C, mm ² /s	ASTM D445	101
Kinematic Viscosity @ 100°C, mm ² /s	ASTM D445	14,6
Viscosity Index	ASTM D2270	150
Flash Point (COC), °C	ASTM D92	234
Pour Point, °C	ASTM D97	-36
Density @ 15°C, kg/m ³	ASTM D4052	875
Total Base Number, mg KOH/g	ASTM D2896	9,7
Sulphated Ash, wt%	ASTM D874	1,3

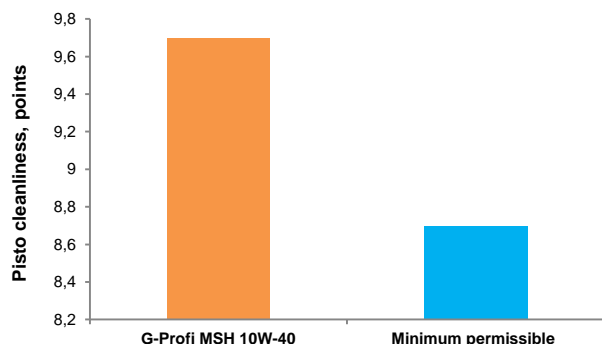
G-Profi MSH 10W-40 engineered to meet or exceed the requirements of many leading industry and car manufacturers' standards.

G-Profi MSH 10W-40 outperform following standards:

- ACEA E7
 - wear 15% lower
 - engine cleanliness 15% higher
- API CH-4
 - soot control 12% better
 - corrosion protection
- Volvo VDS-2
 - cylinder wear control 15% higher
 - lower piston deposits



High temperature deposits*



*OM 646 DE22LA (CEC-SG-L-099)

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.

G-Profi MSH 15W-40

Heavy Duty Diesel Engine Oil



Turbocharged engine



Up to Euro 3



Excellent TBN retention



Engine cleanliness



Mineral

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Meets the requirements:

- API CH-4/SL
- ACEA E7
- Cummins CES 20076/20077
- Komatsu
- MACK EO-M Plus

Approvals:

- Deutz DQC II
- MAN M 3275-1
- MB 228.3
- MTU Cat. 2
- Renault Trucks RD/RD-2
- Volvo VDS-2
- KAMAZ
- YaMZ

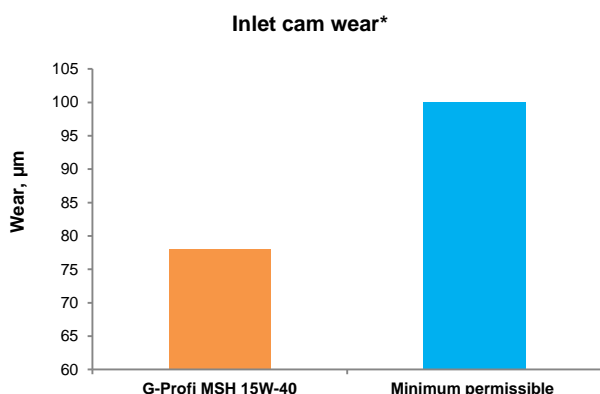
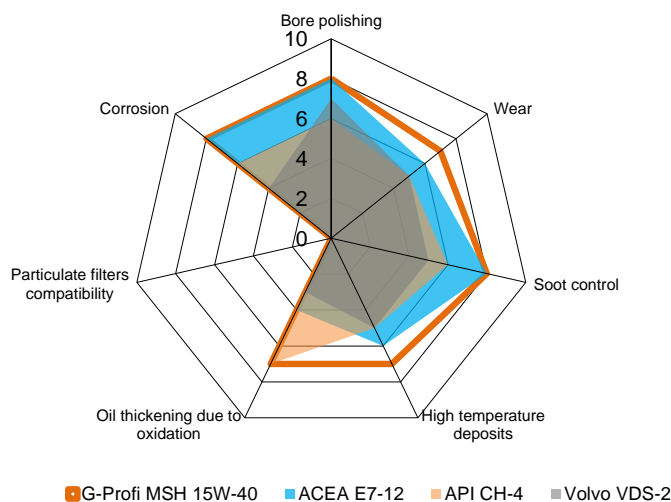
Typical Characteristics

Properties	Method	G-Profi MSH 15W-40
SAE Viscosity Grade	SAE J300	15W-40
Kinematic Viscosity @ 40°C, mm ² /s	ASTM D445	118,0
Kinematic Viscosity @ 100°C, mm ² /s	ASTM D445	15,0
Viscosity Index	ASTM D2270	132
Flash Point (COC), °C	ASTM D92	232
Pour Point, °C	ASTM D97	-33
Density @ 15°C, kg/m ³	ASTM D4052	887
Total Base Number, mg KOH/g	ASTM D2896	9,7
Sulphated Ash, wt%	ASTM D874	1,3

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