

G-Profi MSH 10W-40, 15W-40



Turbocharged engines



До Euro-3 and lower



High and stable TBN



Improved detergency



Semi-synthetic base oil
(10W-40)



Mineral base oil (15W-40)

G-Profi MSH 10W-40, 15W-40 – are all-season semi-synthetic (SAE 10W-40) and mineral (SAE 15W-40) heavy-duty engine oils. Designed for Euro-3 heavy-duty turbocharged diesel engines produced by European, Asian and American manufacturers. **G-Profi MSH** products have improved detergency and neutralization capability.

Application



- For on-road (heavy-duty trucks, buses, etc. и т.д.) and off-road (agricultural, mining, construction, etc.) machinery produced by European, American and Asian manufacturers.
- Heavy-duty turbocharged Euro 3 and lower tier engines, requiring API CH-4 and lower.
- Gasoline engines, requiring API SL level engine oils.

Advantages/Potential benefits

Adaptive additive technology of **G-Profi MSH 10W-40, 15W-40** provides high engine performance in all working conditions:

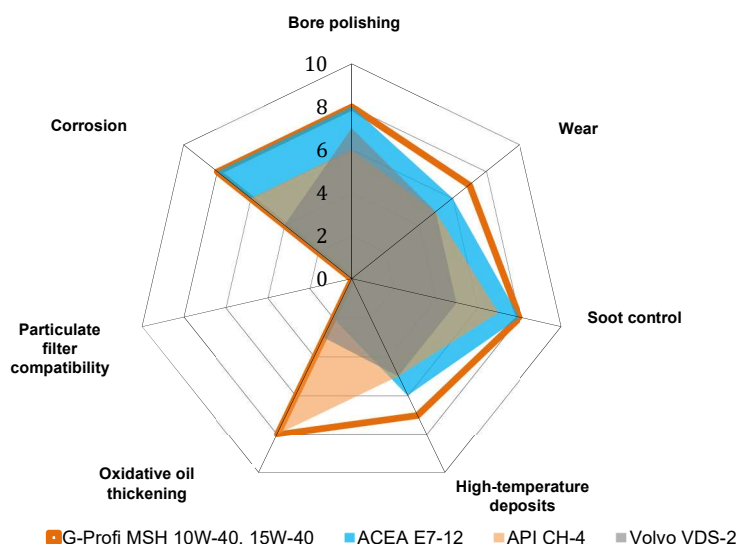
Features	Advantages/Potential benefits
Enhanced TBN reserve	Fuel combustion products neutralization – engine life preservation
High dispersant activity	Soot and other contaminants control – stable oil pressure
Improved wear protection	Additional valve train details protection – engine life maximization
High detergency	Slower engine deposits generation – engine efficiency preservation
Stay-in-grade viscosity share stability	Constant lubrication of engine parts and stable oil pressure – engine life preservation
Improved corrosion protection	Additional engine details protection – lowering repair and maintenance costs

Typical characteristics

Features	Value		Method
	10W-40	15W-40	
Kinematic viscosity, mm ² /s			
at 40 °C	96,4	109,9	ASTM D 445
at 100 °C	14,4	14,6	ASTM D 445
Viscosity index	155	137	ASTM D 2270
Flash point (COC), °C	245	237	ASTM D 92
Pour point, °C	-38	-35	ASTM D 97
Density at 15 °C, kg/m ³	870	887	ASTM D 4052
Total Base Number, mg KOH/g	12	12	ASTM D 2896
Зольность сульфатная, % масс.	1,6	1,6	ASTM D 874

G-Profi MSH 10W-40 and 15W-40 are designed to satisfy and outperform the requirements of main equipment manufacturers:

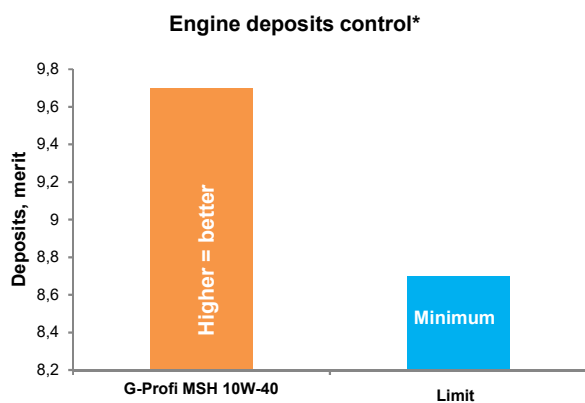
- ACEA E7
 - 15% better wear protection;
 - 15% better engine cleanliness;
- API CH-4
 - 12% better soot control
 - better corrosion protection
- Volvo VDS-2
 - 15% better cylinder bore wear protection
 - lower cylinder-piston group details deposits



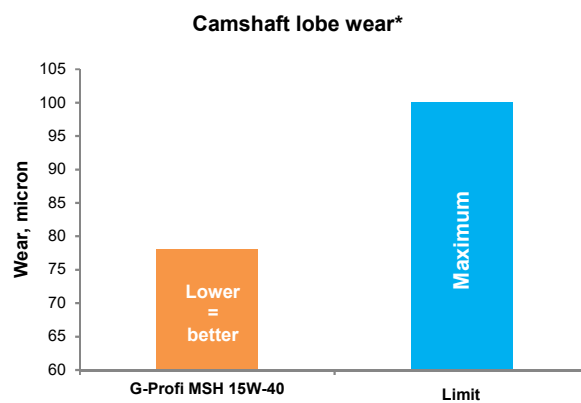
Specifications

- ACEA E7; API CH-4; API SL
- Caterpillar ECF-1a
- Cummins CES 20076/2007
- Deutz DQC II-18
- Komatsu (for SAE 10W-40)
- MACK EO-M Plus; MAN M 3275
- MB 228.3; MTU Cat. 2
- Renault Trucks RD; Renault Trucks RD-2
- Volvo VDS-2
- Avtodiesel (YAMZ); KAMAZ
- TMZ"

G-Profi MSH 10W-40, 15W-40 outperforms the requirements of main specifications according to the tests:



Because of G-Profi MSH 10W-40 good detergency properties less deposits formation achieved – engine cleanliness.



Improved anti-wear properties of G-Profi MSH 15W-40 – engine life maximization

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

Certified

ISO 9001



ISO 14001



ISO 45001

