

G-Profi MSF 10W, 30, 40 and 50

Monograde Heavy Duty Diesel Engine Oils



Turbocharged engine



Up to Euro 2



Protection against high temperature deposits



Detergent properties



Mineral

G-Profi MSF are monograde high performance engine oils engineered to offer the ultimate protection of diesel engines by offering improved and stronger wear and deposits control. Formulated from high quality base stocks and balanced additives they provide effective protection under various operation conditions. Enchased acid-control system helps to control engine cleanliness to prolong engine life. G-Profi MSF suitable for use in wide range of on and off-highway applications where API CF-4 performance is required.

Applications



- Wide range of turbocharged and non-turbocharged heavy duty diesel engines requiring API CF-4 performances and meeting Euro 2 emission standard
- Commercial vehicles, buses, trucks and off-road agricultural, construction equipment from European and US manufacturers
- Monograde oils can be used in certain transmission and mobile hydraulic systems where use of monograde engine oils is recommended by equipment manufacturer

Features	Advantages and Potential Benefits
Increased thermal and oxidation stability	Extended drain intervals and engine life
High detergent properties	Lower high temperature deposits formation to reduce maintenance costs
Excellent TBN retention	Higher corrosion protection to extend overhaul intervals
Protection against wear	Excellent performance in both low and high temperature service for long engine life

Meets the requirements:

G-Profi MSF 10W and 30

- API CF/SG
- MAN 270
- MB 228.0
- MTU
- Volvo VDS

G-Profi MSF 40 and 50

- API CF
- API CF-4
- MAN 270
- MB 228.0

Typical Characteristics

Properties	Method	G-Profi MSF 10W	G-Profi MSF 30	G-Profi MSF 40	G-Profi MSF 50
SAE Viscosity Grade	SAE J300	10W	30	40	50
Kinematic Viscosity @ 40°C, mm ² /s	ASTM D445	38,8	107,0	157,4	258,1
Kinematic Viscosity @ 100°C, mm ² /s	ASTM D445	6,4	11,8	14,9	20,5
Viscosity Index	ASTM D2270	115	98	94	93
Flash Point (COC), °C	ASTM D92	222	242	254	265
Pour Point, °C	ASTM D97	-38	-22	-17	-15
Density @ 15°C, kg/m ³	ASTM D4052	878	891	898	902
Total Base Number, mg KOH/g	ASTM D2896	8,9	8,9	11,6	11,6
Sulphated Ash, wt%	ASTM D874	1,3	1,3	1,5	1,5

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 MSF 10W- 40 and 15W- 40

Heavy Duty Diesel Engine Oil



Turbocharged engine



Up to Euro 2



Protection against high temperature deposits



Detergent properties



Semisynthetic
10W-40



Mineral
15W-40

G-Profi MSF are high performance engine oils engineered to offer the ultimate protection of diesel engines by offering improved and stronger wear and deposits control. Formulated from high quality base stocks and balanced additives they provide effective protection under various operation conditions. Encashed acid-control system helps to control engine cleanliness to prolong engine life. G-Profi MSF suitable for use in wide range of on and off-highway applications where API CF-4 performance is required.

Applications



- Wide range of turbocharged and non-turbocharged heavy duty diesel engines requiring API CF-4 performances and meeting Euro 2 emission standard
- Commercial vehicles, buses, trucks and off-road agricultural, construction equipment from European and US manufacturers
- Gasoline engines where API SG (or lower) performance is required

Features	Advantages and Potential Benefits
Increased thermal and oxidation stability	Extended drain intervals and engine life
High detergent properties	Lower high temperature deposits formation to reduce maintenance costs
Excellent TBN retention	Higher corrosion protection to extend overhaul intervals
Protection against wear	Excellent performance in both low and high temperature service for long engine life
Wide specification profile	Provide inventory rationalization options for the mixed fleet operator, where any of the performance levels shown below are stated

Meets the requirements:

- API CF/SG
- Volvo VDS
- MAN 271 (G-Profi 15W-40)
- MB 228.1 (G-Profi 15W-40)
- MTU (G-Profi 15W-40)

Approvals:

- KAMAZ
- YaMZ

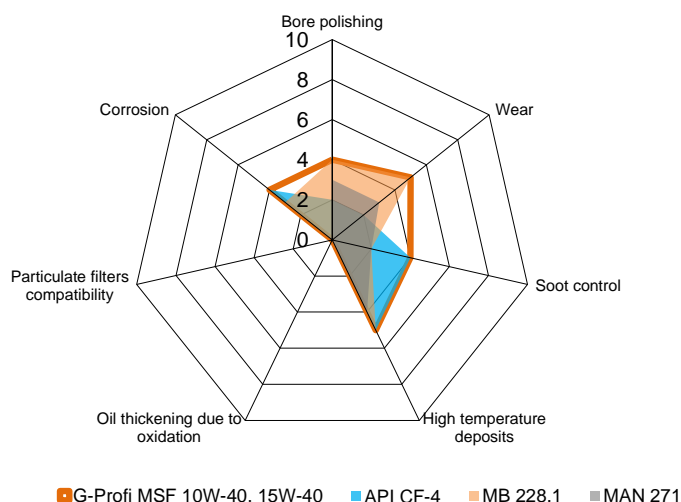
Typical Characteristics

Properties	Method	G-Profi MSF 10W-40	G-Profi MSF 15W-40
SAE Viscosity Grade	SAE J300	10W-40	15W-40
Kinematic Viscosity @ 40°C, mm ² /s	ASTM D445	100,6	118,5
Kinematic Viscosity @ 100°C, mm ² /s	ASTM D445	14,6	14,9
Viscosity Index	ASTM D2270	150	129
CCS @-25 °C, mPa·s	ASTM D5293	227	239
Flash Point (COC), °C	ASTM D92	-35	-33
Pour Point, °C	ASTM D97	874	882
Density @15°C, kg/m ³	ASTM D4052	8,9	8,9
Total Base Number, mg KOH/g	ASTM D2896	1,3	1,3

G-Profi MSF oils engineered to meet or exceed the requirements of many leading industry and car manufacturers' standards.

G-Profi MSF 10W-40 and **15W-40** outperform following standards:

- API CF-4
 - better wear protection
 - lower bore polishing
- MB 228.1
 - better corrosion protection
 - better oil thickening control
- MAN 271
 - deposits control
 - better soot control



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