

## G-Profi MSI Plus 15W-40



Turbocharged engines



Euro-4, 5 and lower



Exhaust Gas Recirculation



Selective Catalytic Reduction



Excellent soot control



Improved engine cleanliness



Improved corrosion protection



Semi-synthetic base oil

**G-Profi MSI Plus 15W-40** is semi-synthetic all-season SHPD (Super High Performance Diesel) engine oil. Formulated to satisfy strict Cummins requirements to lubricants for its EGR-equipped engines. This engine oil has improved detergency, high dispersant activity, improved protection against wear and corrosion.

### Application



- For off-road (agricultural, mining, construction, etc.) and some on-road (heavy duty trucks, buses, etc.) machinery produced by European, American, Asian and other manufacturers.
- SHPD heavy-duty Euro-4, 5 tier engines, requiring API CI-4 and lower class engine oils.
- Compatible with EGR- and SCR-equipped engines (according ACEA E7).
- Can be used in gasoline engines, requiring API SL engine oils .

### Features/Potential benefits

Adaptive additive technology **G-Profi MSI Plus 15W-40** provides high engine performance in all working conditions:

Features	Advantages/Potential benefits
Improved oxidation resistance	Better oil properties stability – extended drain interval capability, reducing lubricants expenses
High detergency and dispersant activity	Less deposits in engine – lower risk of unexpected equipment failures
Extended TBN reserve	Additional corrosion protection – engine life preservation
Excellent soot control	Better soot control – stable engine oil pressure
Stable viscosity during high-temperature operation	Effective protection of engine parts in all operating modes – reduced repair and maintenance costs
Improved corrosion protection	Engine details are untouched by acids – reduced maintenance cost

### Typical characteristics

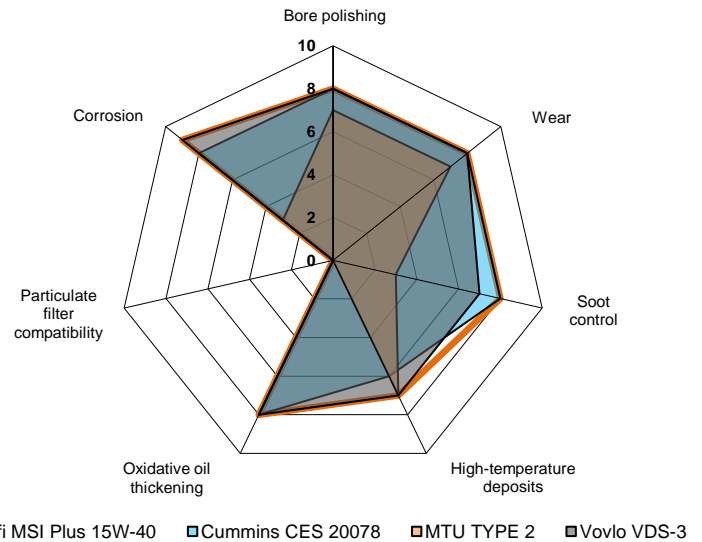
Properties	Value	Method
Kinematic Viscosity, mm <sup>2</sup> /s at 40 °C	114,0	ASTM D 445
at 100 °C	15,2	ASTM D 445
Viscosity Index	139	ASTM D 2270
Flash Point (COC), °C	234	ASTM D 92
Pour Point, °C	-37	ASTM D 97
Density at 15 °C, kg/m <sup>3</sup>	887	ASTM D 4052
Total Base Number, mg KOH/g	12	ASTM D 2896
Sulphated Ash, % wt.	1,4	ASTM D 874

### 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 MSI Plus 15W-40** is designed to satisfy and outperform the requirements of main equipment manufacturers:

- MTU Type 2
  - better soot control;
  - better corrosion protection;
- Cummins CES 20078
  - 15% less piston high-temperature deposits ;
- Volvo VDS-3
  - 15% better soot control.



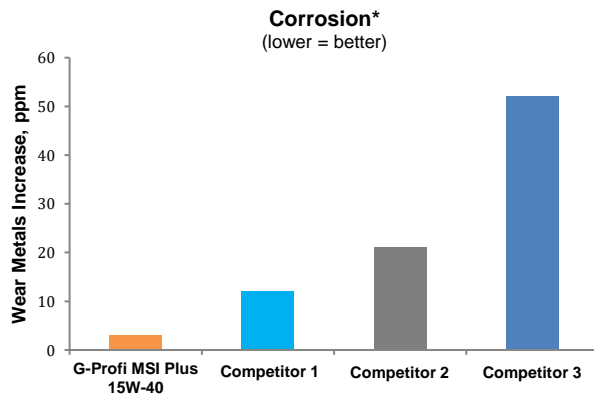
### Approvals

- API CI-4/SL
- Cummins CES 20078; Volvo VDS-3
- MB-Approval 228.3; Mack EO-N
- MTU Cat.2
- Renault Trucks RLD-2; Deutz DQC III
- JASO DH-1; Detroit Diesel DDC 93K215
- OJSC "Autodiesel" (YaMZ)
- OJSC "TMZ"
- OJSC "KAMAZ"

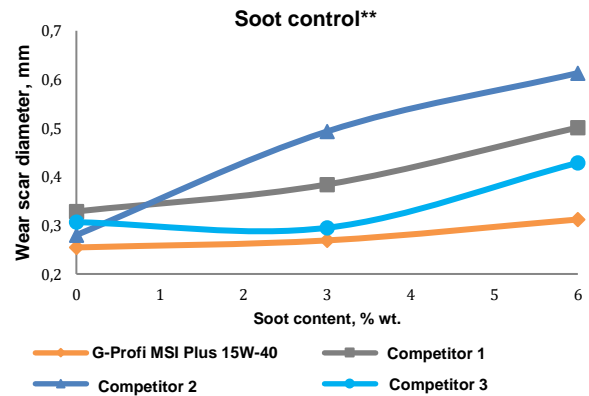
### Specifications

- ACEA E7
- Caterpillar ECF-1a/ECF-2
- Komatsu
- Cummins CES 20076/77
- MAN M 3275-1
- Global DHD-1

**G-Profi MSI Plus 15W-40** outperforms the requirements of main specifications according to the tests



Improved corrosion protection of G-Profi MSI Plus 15W-40 helps to maximize journal bearings life and to preserve engine life.



Extra-high dispersant activity of G-Profi MSI Plus 15W-40 gives better soot control, less wear of the engine parts and stable oil pressure.

\* Corrosion test ASTM D6594; \*\* High Frequency Reciprocating Rig test

### Certified

ISO 9001



ISO 14001



ISO/TS 16949



ISO 45001

