



PETRONAS

## Technical Data Sheet

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# PETRONAS Urania 1000 E 15W-40

### APPLICATIONS

Suitable for all types of heavy duty diesel applications including modern, high-output, low emission engines fitted with emission control system using EGR technology. It is also suitable for new and old turbocharged and naturally aspirated diesel engines, both on-highway and off-highway, running on high or ultra-low Sulphur diesel and bio-diesel.

Note: Always consult your owner's manual to check recommended viscosity grade and specifications for your particular vehicle.

### SPECIFICATIONS & APPROVALS\*

Meets or Exceeds the requirements of:	API CH-4
Meets or Exceeds the following builder requirements:	Allison C-4
	CAT ECF-1
	Cummins CES 20072/ 20071
	Mack EO-M
	MAN M3275
	MTU Type 2
	MB 228.3
	Renault RD/ RD-2
	Volvo VDS-2

\* All technical data is provided for reference only.

### TYPICAL PHYSICAL DATA\*\*

Parameters	Method	Unit	Typical Value
Appearance	-	-	B&C
Density 29.5°C	ASTM D 4052	g/cm <sup>3</sup>	0.869
Viscosity at 100°C	ASTM D 445	cSt	15.2
Viscosity Index	ASTM D 2270	-	135
Flash Point Cl. O. C	ASTM D 92	°C	232
TBN	ASTM D 2896	mg KOH/g	9.4
Pour Point	ASTM D 97	°C	-24

\*\* These characteristics are typical of current production. Whilst future production will conform to PLI's specification, variations in these characteristics may occur.

### FEATURES & BENEFITS

- Maintains oil at optimal viscosity levels, delivering optimal lubrication to prevent unplanned breakdowns.
- Excellent control in deposit build ups, delivering optimum fleet's engine performance.
- Reduces acidic levels leads to corrosion, making your fleet engines more durable and longer life.
- Longer oil drain capability, especially on low emission engines.

### OIL TYPE

- Mineral

**Health, Safety and Environment**

This product is unlikely to present any significant health and safety hazards when used in the recommended application. Avoid contact with skin. Wash immediately with soap and water after skin contact. Do not discharge into drains, soil or water.

For further detail regarding storage, safe handling, and disposal of product, please refer to product SDS or contact us at: [www.pli-petronas.com](http://www.pli-petronas.com)

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