

## Product Data Sheet

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PETRONAS

# PETRONAS Urania 5000 LSE 10W-40

Designed with StrongTech™, engineered with core strength to stay stronger for longer

It's tough out there and getting tougher for your commercial transport business. The world is changing at breakneck speed, throwing an ever-growing, intense set of external challenges and pressures your way. Yet, in the face of all this, you are relied upon to get the job done. The same is true of your truck.

### Description and Applications

PETRONAS Urania 5000 LSE 10W-40 is synthetic engine oil formulated with StrongTech™ technology, engineered to stay stronger for longer, forming a uniquely strong fluid film to extend drain intervals and engine life, maximize performance and keep your business and your trucks moving. This helps in extending engine life and reduces the total cost of ownership.

PETRONAS Urania 5000 LSE 10W-40 is low SAPS engine oil suitable for Euro VI and Euro V heavy-duty diesel applications including modern, high-output, low emission engines fitted with emission control system using DPF, SCR, DOC and EGR technologies. 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. It can be used where MB 226.9 is recommended. Suitable for OEMs requiring specifications listed below for their CNG vehicles.

PETRONAS Urania 5000 LSE 10W-40 is approved Daimler Truck Fluid Release (DTFR) 15C110, fully backward compatible and suitable for use for vehicles recommending the previous Daimler MB 228.51 specification. Fully backward compatible with previous E6-16, E9-16 and E7-16 classifications.

### Benefits

PETRONAS Urania 5000 LSE 10W-40 enhances your Business Profits and your vehicle availability while significantly reducing your operating costs through:

- **Maintains oil at optimal viscosity levels, delivering optimal lubrication to prevent unplanned breakdowns.**
- **Longer Drain Interval and Engine Life** driven by:
  - o Excellent control in deposit build ups, delivering optimum fleet's engine performance
  - o Keeps the acidic level under control, preventing corrosion and increasing the durability and the life of your engine
  - o Longer oil drain capability, especially on low emission engines.
  - o Outstanding protection for emission after-treatment systems such as DPF and DOC with low ash formulation

Provides outstanding Driving Experience through:

- **Effectively combats high concentration of soot build ups, critical to prevent loss of vehicle horsepower**

### Approvals, Specifications and Recommendations

#### Specifications:

- API CI-4
- ACEA E11, E8, E7
- JASO DH-2

#### Approvals:

- DTFR 15C110
- Mack EO-N
- Renault RLD-2
- Volvo VDS-3

#### Performance Level:

- CAT ECF-1a
- Cummins CES 20077/20076
- Deutz DQC IV-18 LA
- Deutz TTCD
- MAN M3477, M3271-1
- MTU Oil Category 3.1
- Renault RXD, RGD

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

## Typical Physical Data

Parameters	Method	Unit	Typical Value
Appearance	-	-	Bright & Clear
Density @15°C	ASTM D 4052	g/cm <sup>3</sup>	0.861
Kinematic Viscosity @100°C	ASTM D 445	mm <sup>2</sup> /s (cSt)	15.3
Viscosity Index	ASTM D 2270	-	156
Flash Point COC	ASTM D 92	°C	> 200
TBN	ASTM D 2896	mgKOH/g	10
Pour Point	ASTM D97	°C	-39

All technical data is provided for reference only. These characteristics are typical of current production. Whilst future production will conform to PLI's specification, variations in these characteristics may occur.

### 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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