

**PETRONAS**

# PETRONAS Urania 5000 LS

## 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 LS 10W-40 is synthetic technology 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 LS 10W-40 is a low SAPS oil that is suitable for Euro VI and Euro V heavy duty diesel applications including modern, high-output, low emission engines fitted with emission control systems using DPF, SCR, DOC and EGR technologies. It is also suitable for older turbocharged and naturally aspirated diesel engine generations, both on-highway and off-highway, running on high or ultra-low Sulphur diesel and biodiesel. Suitable for OEMs requiring below specifications for their CNG vehicles.

PETRONAS Urania 5000 LS 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, E7-16 and E9-16 classifications.

### Benefits

PETRONAS Urania 5000 LS 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.**
- **Better fluid film resistance under severe mechanical stress to deliver enhanced engine durability.**
- **Extended Drain Interval and Engine Life** driven by:
  - o Outstanding protection for emission after-treatment systems such as DPF and DOC with low ash additive system.
  - o Keeps the acidic level under control, preventing corrosion and increasing the durability and the life of your engine
  - o Exceptional thermal and oxidation stability under high temperature, providing viscosity stability and preventing formation of deposits and sludge to prolong oil life even under severe conditions

Provides outstanding Driving Experience through:

- **Effectively combats high concentration of soot build ups, critical to prevent loss of vehicle horsepower**
- **Excellent low temperature viscosity** for improved lubrication during start-up

### Approvals, Specifications and Recommendations

#### Specifications:

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

#### Approvals:

- Cummins CES 20086
- Deutz DQC IV-18 LA
- DTFR 15C110 (MB 228.51)
- Mack EOS-4.5
- MTU Oil Category 3.1
- Renault RLD-3
- Volvo VDS-4.5

#### Performance level:

- CAT ECF-3
- DAF Extended Drain\*  
\*DAF Rapido Service system required
- Detroit Diesel DFS93K222
- IVECO 18-1804 Class TLS E9
- IVECO 18-1804 Class TLS CK4
- MAN M3477
- Scania Low Ash

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>	0.868
Kinematic Viscosity @100°C	ASTM D 445	mm <sup>2</sup> /s (cSt)	14.2
Viscosity Index	ASTM D 2270	-	152
Flash Point COC	ASTM D 92	°C	> 220
TBN	ASTM D 2896	mgKOH/g	≥ 10
CCS at -25°C	ASTM D5293	mPa·s	6400
Pour Point	ASTM D 97	°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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