

Product Data Sheet

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PETRONAS

PETRONAS Urania 5000 LS-FE 5W-30

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-FE 5W-30 is a fully 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.

PETRONAS Urania 5000 LS-FE 5W-30 is a low SAPS oil that is suitable for latest generation heavy duty diesel applications including modern, high-output, low emission engines fitted with emission control systems using DPF, SCR, DOC and EGR technologies.

PETRONAS Urania 5000 LS-FE 5W-30 is approved Daimler Truck Fluid Release (DTFR) 15C130, fully backward compatible and suitable for use for vehicles recommending the previous Daimler MB 228.61 specification.

PETRONAS Urania 5000 LS-FE 5W-30 is approved Volvo VDS-5, specifically developed for Volvo modern high-output, low emission Euro 6d engines produced after 2021 and beyond.

The better protection against oxidation, high temperature viscosity reduction, sludge build up and excellent low temperature circulation properties, provide more durability, efficiency, and reliability, providing greater uptime performance, helping to reduce Total Cost of Ownership.

Benefits

PETRONAS Urania 5000 LS-FE 5W-30 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.**
- **Outstanding Fuel Economy (up to 0.5% improvement vs, 10W-30)**
- **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**
- **Exceptional low temperature viscosity** for improved lubrication during start-up

Approvals, Specifications and Recommendations

Specifications:

- API FA-4, SN, SN Plus
- ACEA F01
- JASO DH-2

Approvals:

- Cummins CES 20087
- DTFR 15C130 (MB 228.61)
- Mack EOS-5
- Renault RLD-5
- Volvo VDS-5

Performance Level:

- Detroit Diesel DFS93K223

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 ³	0.858
Kinematic Viscosity @100°C	ASTM D 445	mm ² /s (cSt)	9.8
Viscosity Index	ASTM D 2270	-	153
Flash Point COC	ASTM D 92	°C	> 220
TBN	ASTM D 2896	mgKOH/g	10
CCS at -30°C	ASTM D5293	mPa*s (cP)	6280
Pour Point	ASTM D 97	°C	-42

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

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