



PETRONAS

Technical Data Sheet

Revised: 2016/02/22 (version 1.0)

PETRONAS Urania 5000 E 15W-40

APPLICATIONS

Engine oil suitable for all types of 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 new and old turbocharged and naturally aspirated diesel engines, both on-highway and off-highway, running on low or ultra-low sulphur diesel and bio-diesel. Also applicable for gasoline engine such as pick-up trucks, four-wheel drive (4WD) and sport utility vehicles (SUVs).

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 CJ-4 / SM, ACEA E7/ E9
Has the following builder approvals:	MB-Approval 228.31
	Cummins CES 20081
	Detroit Diesel DFS93K218
	Deutz DQC III-10 LA
	Mack EO-O Premium Plus
	MAN M3575
	MTU Type 2.1
	Renault VI RLD-3
Meets or Exceeds the following builder requirements:	Volvo VDS-4
	CAT ECF-3/ ECF-2/ ECF-1-a
	Scania Low Ash

* All technical data is provided for reference only.

TYPICAL PHYSICAL DATA**

Parameters	Method	Unit	Typical Value
Appearance	-	-	B&C
Density 15°C	ASTM D 4052	g/cm ³	0.867
Viscosity at 100°C	ASTM D 445	cSt	14.7
Viscosity Index	ASTM D 2270	-	142
Flash Point C.O.C	ASTM D 92	°C	228
Sulphated Ash	ASTM D874	%	0.98
TBN	ASTM D 2896	mg KOH/g	8.6
Pour Point	ASTM D 97	°C	-36

** 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
- Effectively combats high concentration of soot build ups, critical to prevent loss of vehicle horsepower
- Reduces acidic levels leads to corrosion, making your fleet engines more durable and longer life.
- Outstanding protection for emission after-treatment systems such as DPF and DOC with low ash additive system.
- 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

Important Note

The word PETRONAS, the PETRONAS logo and such other related trademarks and/or marks used herein are trademarks or registered trademarks of PETRONAS Lubricants International Sdn. Bhd. ("PLISB"), or its subsidiaries or related Holding Corporation under license unless indicated otherwise. The PLI Documents and the information contained herein is believed to be accurate as of the date of printing. PLISB makes no express or implied representation or warranties as to its accuracy or completeness or information in or any transaction performed. The PLI Documents information provided is based on standard tests under laboratory conditions and is given only as a guide. Users are advised to ensure that they refer to the latest version of these PLI Documents. It is the responsibility of the users to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations imposed by the respective local authorities.

Safety Data Sheets are available for all our products and should be only be consulted for appropriate information regarding storage, safe handling and disposal of the product. No responsibility shall be taken by either PLISB or its subsidiaries and related holding corporation for any loss or injury or any direct, indirect, special, exemplary, consequential damages or any damages whatsoever, whether in action of contract, negligence or other tortious action, in connection or resulting from abnormal use of the materials and/or information, from any failure to adhere to recommendations, or from hazards inherent in the nature of the materials and/or information. All products, services and information supplied are under our standard conditions of sale. Please consult with any of our local representative in the event you require any further information.

Code: 2145