



PETRONAS

Technical Data Sheet

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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 ⁰ C	ASTM D 4052	g/cm ³	0.867
Viscosity at 100 ⁰ C	ASTM D 445	cSt	14.7
Viscosity Index	ASTM D 2270	-	142
Flash Point C.O.C	ASTM D 92	⁰ C	228
Sulphated Ash	ASTM D874	%	0.98
TBN	ASTM D 2896	mg KOH/g	8.6
Pour Point	ASTM D 97	⁰ 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

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