

TECHNICAL PRODUCT SHEET

ECO R² ULTRA 5W—40



DESCRIPTION

ECO R2 ULTRA is a high-performance engine lubricant formulated with premium re-refined synthetic base oils and an advanced friction-modification system. Engineered for modern gasoline and light-duty diesel engines, it provides strong protection under severe thermal and mechanical stress. Its re-refined synthetic base stock matrix delivers excellent oxidation resistance, thermal stability, and viscosity retention, reducing deposit formation and safeguarding engine components during high-load cycles and cold-start conditions. By utilizing re-refined base oils, the product significantly lowers carbon footprint without compromising ultra-premium performance.

APPLICATIONS

ECO R2 ULTRA is suitable for modern four-stroke gasoline and diesel engines (excluding DPF-equipped units), including turbocharged, direct-injection, multivalve, and electronically controlled powertrains. Its formulation supports extended drain intervals, making it a dependable choice for passenger cars, SUVs, and light commercial vehicles operating under severe driving conditions. The lubricant is fully compatible with catalytic converters and most OEM performance requirements associated with high-output or long-service-interval engines.

SPECIFICATIONS

API	SP	VW	502.00
API	SN PLUS	VW	505.00
ACEA	A3/B4	MB	229.5
PSA	B71 2296	MB	229.3

PROPERTIES

ECO R2 ULTRA offers stable viscosity across a wide temperature range, rapid cold-start circulation, and reliable film strength at high engine loads. It features a robust detergent-dispersant system for piston cleanliness, strong oxidation resistance, and low volatility to minimize oil consumption and maintain consistent performance over extended service intervals.

BENEFITS

ECO R2 ULTRA reduces frictional losses, enhances cold-start protection, and maintains long-term engine cleanliness. Its re-refined synthetic base oils provide durability with a reduced environmental impact, supporting lower emissions, fewer deposits, and extended drain intervals—all while ensuring reliable engine performance and efficiency.



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PHYSICAL-CHEMICAL CHARACTERISTICS

ECO R2 ULTRA	METHOD	SAE 5W-40
Density at 15°C, g/cm ³	ASTM D4052	0.857
Dynamic Viscosity, °C/cP	ASTM D5293	-30°C/6,100
Viscosity, Kinematic (cSt) 100°C	ASTM D445	14.5
Viscosity, Kinematic (cSt) 40°C	ASTM D445	87.5
Viscosity index	ASTM D2270	166
TBN, mgKOH/g	ASTM D2896	10.2
Flash point, COC, °C	ASTM D92	230
Pour point, °C	ASTM D97	-36

The above mentioned characteristics represent mean values.

STORAGE

All packages must be stored in covered, well-ventilated areas. If outdoor storage cannot be avoided, barrels must be placed horizontally to prevent water ingress and to protect labels and markings from damage. Products must not be stored at temperatures above 60 °C and must not be exposed to direct sunlight, freezing conditions, or extreme temperature fluctuations.



HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).



USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.

