

TECHNICAL PRODUCT SHEET

PWR ECO R² XTB 15W—40



DESCRIPTION

PWR ECO R2 XTB is a high-performance heavy-duty diesel engine oil formulated with high-quality re-refined base oils and an advanced additive package engineered for severe operating conditions. Designed to deliver strong detergency, soot control, and anti-wear performance, it maintains excellent stability in engines running under high loads, elevated temperatures, or extended idling. By incorporating re-refined base stocks, PWR ECO R2 XTB provides reliable protection while significantly reducing its environmental footprint compared to lubricants made from virgin mineral oils.

APPLICATIONS

PWR ECO R2 XTB is suitable for American, European, and Chinese non-road engines (Pre-Tier 4 / China NR4 / EU Stage IIIb/IV) and for equipment using EGR or SCR systems, especially when operating with high-sulfur fuels. It is also ideal for hydrostatic transmissions requiring a robust multigrade lubricant and can be used across commercial, industrial, marine, power generation, construction, mining, and agricultural equipment fleets.

SPECIFICATIONS

ACEA	E5	DIFR	15B100 (ex. MB 228.3)
ACEA	E7	CUMMINS	CES 20076
API	CI-4 Plus	CUMMINS	CES 20077
API	CI-4	CUMMINS	CES 20078
API	CH-4	DEUTZ	DQC III-10
API	CG-4	Global	DHD-1
API	CF-4	CATERPILLAR	ECF-1a
MAN	3275-1 (SAE 15W-40)	MTU	Cat. 2
ZF	TE-ML 04P / 07D		

PROPERTIES

PWR ECO R2 XTB provides stable viscosity at high operating temperatures, preventing metal-to-metal contact in high-load or idle conditions. Its strong detergent-dispersant system enhances soot-related viscosity control and minimizes shear-induced viscosity loss. The thermally stable re-refined base oils resist oxidation and thermal degradation, enabling clean operation at higher sump temperatures while maintaining excellent low-temperature pumpability.



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BENEFITS

PWR ECO R2 XTB supports extended engine life by reducing wear, controlling soot accumulation, and preserving lubricant viscosity over long service periods. It lowers oil consumption, improves operational reliability, and enhances protection in both high-load and cold-start conditions. The use of re-refined base oils reduces the product's carbon footprint, offering fleet operators a more sustainable choice without compromising durability or performance.

PHYSICAL-CHEMICAL CHARACTERISTICS

PWR ECO R2 XTB	METHOD	SAE 15W-40
Density at 15°C, g/cm ³	ASTM D4052	0.878
Viscosity, Kinematic (cSt) 40°C	ASTM D445	104.2
Viscosity, Kinematic (cSt) 100°C	ASTM D445	15.3
Viscosity index	ASTM D2270	155
Flash point, COC, °C	ASTM D92	234
Pour point, °C	ASTM D97	-31
TBN, mgKOH/g	ASTM D2896	15.3
Dynamic Viscosity, °C/cP	ASTM D5293	-20°C/6,500
HTHS, cP	CEC-L-36-A-90	3.8

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.

