PWR SUPER LM 40

DESCRIPTION

PWR SUPER LM is a high-performance, low-ash locomotive engine lubricant engineered with a high alkaline reserve to deliver exceptional protection in heavy-duty, medium-speed locomotive engines. Formulated using premium-quality base oils and the latest zinc-free and chlorine-free additive technology, it ensures excellent resistance to engine wear, deposit formation, and oxidation under demanding operational conditions. Its environmentally conscious, ash-controlled chemistry also helps minimize used-oil disposal challenges while maintaining the performance reliability required for modern locomotive applications.

APPLICATIONS

PWR SUPER LM is recommended for use in General Motors Electro-Motive Division (EMD) medium-speed locomotive diesel engines. It is also suitable for 2- and 4-stroke, medium-speed heavy-duty marine engines used in primary power generation or auxiliary service, as well as switching locomotive applications. In addition, it can be used in industrial stationary power engines, providing dependable lubrication across a wide range of demanding operating environments. PWR SUPER LM is fully miscible with other railroad-type engine oils and additive systems, and it meets the performance requirements of General Electric (GE), the Locomotive Maintenance Officers Association (LMOA), API service categories, and the CATERPILLAR 3600 series, ensuring broad compatibility and reliable performance in mixed fleets.

SPECIFICATIONS

API	CF	LMAO Gen. 5
API	CF-2	Electro-Motive Division (EMD)
CATERPILLAR	3600 series	General Electric Gen. 4 Long Life

PROPERTIES

PWR SUPER LM formulation provides high alkaline reserves with excellent base number retention, ensuring sustained protection against acidic byproducts in demanding operating conditions. Its outstanding thermal and oxidation stability enhances lubricant life and maintains clean engine operation under high temperatures. The zinc-free, chlorine-free additive technology supports improved environmental performance while delivering reliable wear protection and compatibility with modern engine designs.

BENEFITS

PWR SUPER LM ensures effective neutralization of corrosive acids formed during combustion, delivering reliable protection for diesel engines operating under severe, high-sulfur conditions. Its formulation provides excellent control of high-temperature deposits, helping maintain power output, extend oil-change intervals, and reduce overall maintenance costs. Additionally, it offers robust protection for yellow and silver metallurgy components, minimizing corrosive wear and supporting long-term engine durability.

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v1.JAN26

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PHYSICAL-CHEMICAL CHARACTERISTICS

PWR SUPER LM	METHOD	SAE 40
Density at 15°C, g/cm^3	ASTM D4052	0.884
Viscosity, Kinematic (cSt) 40°C	ASTM D445	147.0
Viscosity, Kinematic (cSt) 100°C	ASTM D445	14.8
Viscosity index	ASTM D2270	147
Flash point, COC, °C	ASTM D92	240
Pour point, °C	ASTM D97	-18
TBN, mgKOH/g	ASTM D2896	13.0
Zinc, ppm	ICP	<5
Sulphated Ash, %wt.	ASTM D784	1.53

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.