

Technical Data Sheet

SUPETRO LP 1041A

Heavy Duty Diesel Engine Oil Additive



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| Superior Petrochemical Solutions |

Description:

SUPETRO LP 1041A is a high-performance additive package designed to formulate premium diesel engine oils. Engine oils formulated with SUPETRO LP 1041A, in combination with Group I, II, or III proper base oils, meet the requirements of API CI-4 and CH-4 performance levels at treat rates of 11% and 10%, respectively. This robust additive package leverages advanced technology to enhance the performance of heavy-duty diesel engines. Carefully formulated with high-quality components, it is designed to meet the demanding requirements of key market segments. To achieve the desired BN, a TBN booster may be required.

Key Performance Features:

- *Exceptional Wear Protection:* Provides superior defense against engine wear, ensuring durability and maintaining engine power.
- *Advanced Detergency:* Offers excellent high-temperature detergency, effectively dispersing soot and preventing deposit formation for cleaner engines.
- *Prolonged Oil Drain Intervals:* Designed to support extended oil drain intervals, even in harsh operating conditions, reducing maintenance requirements.
- *Enhanced Oxidation Performance:* Protects against oxidation, promoting long-term engine reliability and efficiency.

Technical Specification:

Parameter	Test method	Typical value
Appearance	Visual	Brown viscous liquid
Kinematic Viscosity at 100°C, cSt	ASTM D445	Report
Density at 20°C, kg/m ³	ASTM D4052	900-1100
TBN, mg KOH/g	ASTM D2896	85-100
Flash Point, °C	ASTM D92	180 Min.
Calcium Content, wt.%	ASTM D4951	2.5-2.9
Nitrogen Content, wt.%	ASTM D5762	0.7-0.9
Zinc Content, wt.%	ASTM D4951	1.2-1.5
Phosphorus Content, wt.%	ASTM D4951	1.0-1.3
Molybdenum Content, wt.%	ASTM D4951	0.05-0.08

The stated values are typical and should not be regarded as delivery specifications.

www.supetro.com

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Storage, Handling, and Transportation:

- *Storage and Handling:* For optimal shelf life, store the product at ambient temperature, ideally below 45°C, with a long-term storage temperature limit of 50°C. During handling, loading, and unloading, temperatures should not exceed 60°C to 65°C. When stored properly—upright on pallets with containers sealed and, if outdoors, covered by waterproof lids—this product has a 24-month shelf life.
- *Safety and Environmental Considerations:* This product is classified as non-dangerous for naval, rail, and road transport. It is non-flammable, non-explosive, and non-corrosive, aligning with standard petroleum products and requiring no specialized protective measures.

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