



SAE 15W40 INFINOIL PHENOM DIESEL ENGINE OIL (INFMIN 10023)

Performance Standard: API CI4/CI4+/CH4

Manufacturer: MICRATTO TECHNOLOGIES, MALAYSIA

Product Description

SAE 15W40 INFINOIL PHENOM DIESEL ENGINE OIL (INFMIN 10023) is high performance heavy duty diesel engine oil that helps towards long engine life while providing long drain capability for modern diesel engines operating in severe applications. It delivers excellent performance in modern low emission engines, including refrigerated units, as well as older, well maintained engines.

Recommendations

It is recommended for use in a wide range of heavy-duty applications and operating environments found in the on-road transport and off-road mining, construction, and agricultural industries. As a result, this product meets or exceeds the requirements of some of the latest API, Global industry specifications for diesel engine oils, as well as the requirements of many major American, European, and Japanese engine manufacturers.

Customer Benefits

Many modern, low emission diesel engines generate more soot and operate at higher temperatures than older engines. This significantly increases the need for high performance lubricants. Current tighter engine designs reduce oil consumption, resulting in less fresh oil makeup to replenish depleted additives. Top piston rings are located higher, bringing the oil film closer to the combustion chamber and exposing the lubricant to severe thermal stresses. It maintains outstanding performance at high temperatures. It is also fully compatible with conventional oils. The key benefits include:

Features	Advantages and Potential Benefits
Meets or exceeds demanding specifications of major OEMs	One engine oil for mixed fleet operations
Outstanding thermal and oxidation stability	Control of low temperature sludge build-up and high temperature deposits
Low volatility, excellent wear and bore polish control	Good oil consumption control
Expertly formulated low viscosity formulation	Fuel economy potential(1)
Good resistance to corrosion	Helps towards long life of critical wear surfaces
Long drain capability	Help towards operational efficiency and overall cost control
Component compatibility	Long gasket and seal life, extended service intervals

Applications

It is recommended for use in super high performance diesel applications includes the following:

-  On-highway engines operating in both high speed/high load and stop-and-go conditions
-  Off-highway engines operating in severe low speed/heavy load conditions
-  Virtually all diesel powered equipment from American, European, and Japanese equipment builders Refrigeration units

Specifications & Approvals

INFINOIL PHENOM DIESEL ENGINE OIL meets or exceeds the requirements of the following industry and builder specifications		
API CI4/CI4+/CH4/SL/SJ	MB-Approval 228.3/235.28	API CF/CF-4
ACEA E7	Mack EO-N	Renault Trucks RXD
Caterpillar ECF-1-a	Volvo VDS-2/VDS-3	Volvo VDS-2
Cummins CES 20076, 20077, 20078	Renault Trucks RLD-2	Caterpillar ECF-1-a
JASO DH-1	MTU Oil Category 2	Cummins CES 20072, 20075, 20071,

TYPICAL PROPERTIES:

SL NO	TEST PARAMETERS	TEST METHODS	UNITS	RESULTS**
1	Appearance	Visual	NONE	Bright & Clear
2	Color	ASTM D 1500-12	NONE	Report
3	Total Base Number	ASTM D 2896	mg KOH/g	8Min
4	Density @ 15°C	ASTM D 4052-11	g/ml	0.887
5	Kinematic Viscosity @ 40 °C	ASTM D 445	cSt	112.2
6	Kinematic Viscosity @ 100 °C	ASTM D 445	cSt	14.8
7	Viscosity Index	ASTM D 2270	NONE	136
8	Pour Point	ASTM D 97	°C	≤-27
9	CCS @ -25°C	ASTM D 5293	cP	<6800
10	Flash Point	ASTM D 92	°C	≤226

(**The features mentioned above are average values obtained with some variability in production and do not constitute a specification)

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed.