

LUKOIL EFFORSE HD 4009

Medium ash motor oil for gas engines

APPROVALS

MAN M 3271-4
GE Jenbacher TA 1000-1109
MDE 57 AP 2008
MTU BR 400

PRODUCT DESCRIPTION

LUKOIL EFFORSE HD 4009 is a medium ash mineral motor oil for gas engines.

APPLICATION

For four-stroke stationary gas engines running on sour gas (biogas, landfill gas, sewage gas), for which equipment manufacturers require the use of oils with ash content less than 1%.

BENEFITS

LUKOIL EFFORSE HD 4009 provides reliable engine protection against the formation of dirt, sludge, acid corrosion and all types of wear under severe conditions. It provides long oil life and stability of the viscosity due to high thermo-oxidative stability. It does not lead to contamination of the valves, piston heads and catalysts.

The product name in an order:

Gas engine oil LUKOIL EFFORSE HD 4009, STO 79345251-021-2011

TYPICAL TEST DATA

PROPERTY	Test method	LUKOIL EFFORSE HD 4009
Kinematic viscosity at 40 °C, mm ² /s	GOST 33 / ASTM D445 / GOST R 53708	163
Kinematic viscosity at 100 °C, mm ² /s	GOST 33 / ASTM D445 / GOST R 53708	13.5
Viscosity Index	GOST 25371 / ASTM D2270	100
Total Base Number, mg KOH / 1 g oil	GOST 30050 / ASTM D2896	8.7
Sulphated Ash, %	GOST 12417 / ASTM D874	0.88
Pour Point, °C	GOST 20287	-27
Flash Point, COC, °C	GOST 4333 / ASTM D92	260
Weight content of phosphorus, %	GOST 9827 / ASTM D6481 / ASTM D4951	0.027
Foaming tendency / foam stability:		
-at 24 °C, ml	ASTM D892	0/0
-at 94 °C, ml		10/0
-at 24 °C after test at 94 °C, ml		0/0
Density at 15 °C, kg/m ³	GOST R 51069 / ASTM D1298 / ASTM D4052	888.4
Density at 20 °C, kg/m ³	GOST 3900 / ASTM D4052	886.8

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved by OOO "LLK-International".