

LUKOIL EFFORCE 4004

Mineral, high quality, low ash gas engine oil

Approvals

- INNIO Jenbacher TA 1000-1109, Type 2 and 3/ Type 4 (version A&B)/ Type 6 (version C&E)/ Type 6 (version F&J)
- MAN Diesel & Turbo
- Mitsubishi HIET
- Rolls-Royce
- Wartsila 175SG/ 220SG/ 25SG/ 28SG/ 32DF/ 34SG/ 50DF
- JSC "Volzhsky Diesel Engine named after Maminykh (VDM)"

Meets Requirements

- Caterpillar 3300/ 3400/ 3500/ 3600
- Cummins QSK 60G/ QSV 81G/ QSV 91G
- Guascor FGLD, SFGLD
- MAN M 3271-2
- MTU MLT 5074, A001061/29E (Category 1), Onsite Energy 400 & 4000 series
- MWM TR 0199-99-2105
- Perkins engine series 4000
- Waukesha

Product description

High quality, mineral oil with low ash content for industrial gas engines.

Its advanced additive technology provides excellent properties against wear, scuffing high resistance to oxidation and nitration, prevents the formation of deposits and increasing engine life and service life.

Application

LUKOIL EFFORCE 4004 was designed for high output naturally aspirated and turbocharged gas engines in stationary applications running on natural gas, associated petroleum gas and others, in accordance with the instructions from the equipment manual.

Typical test data

The information given in the typical data does not constitute a specification and can be affected by allowable production tolerances. The right to make modifications is reserved by LUKOIL LUBRICANTS EAST EUROPE S.R.L.

Property	Test methods	Value
Density at 15°C, kg/m ³	ASTM D 7042	877.3
Kinematic viscosity at 40 °C, mm ² /s	ASTM D 7042	122.2
Kinematic viscosity at 100 °C, mm ² /s	ASTM D 7042	13.63
Viscosity index	ASTM D 7042/ SR ISO 2909	108
TBN, mgKOH/g	ASTM D 2896	6.3
Pour point, °C	ASTM D 97/ SR 13552	-24
Flash point, COC, °C	ASTM D 92/ SR ISO 2592	254
Sulfated ash, %	ASTM D 874	0.44
Foaming characteristics: tendency-stability		
- at 24°C, ml	ASTM D 892	10-0
- at 93.5°C, ml		10-0
- at 24°C, after test at 93.5°C, ml		10-0

Shelf life and storage

When stored in the original unopened containers in a dry place, this product has a shelf life of 5 years from the date of production.

Safety, Health, Environment

This product doesn't contain any toxic ingredients. During storage, transportation and application of this product, the safety rules for handling lubricating materials and the environment protection regulations must be observed. For further information on how to use LUKOIL products, please refer to the material safety data sheet.