

# LUKOIL EFFORSE XDI 4004

Low ash motor oil for gas engines with extended drain interval

## APPROVALS

**GE Jenbacher TA 1000-1109** Type 6 (C,E)  
**GE Jenbacher TA 1000-1109** Type 4 (A,B)  
**GE Jenbacher TA 1000-1109** Type 3 (A,B)  
**GE Jenbacher TA 1000-1109** Type 2 (A,B)  
**Caterpillar** TR0199-99-12105-19  
**MWM** TR0199-99-02105-19

## MEETS REQUIREMENTS

**Waukesha**  
**Caterpillar** 3500, 3600  
**Cummins** QSV 91G, QSV 81G, QSK 60G, QSK 45G

## PRODUCT DESCRIPTION

**LUKOIL EFFORSE XDI 4004** is a low ash motor oil with extended drain interval for four-stroke stationary gas engines including engines equipped with selective catalytic reduction (SCR).

Special additive package of **LUKOIL EFFORSE XDI 4004** provides excellent protection against wear, oxidation and corrosion and reliable protection from deposits

The product name in an order:

Gas engine oil LUKOIL EFFORSE XDI 4004, STO 79345251-021-2011

in combustion chamber and exhaust system.

## APPLICATION

**LUKOIL EFFORSE XDI 4004** is intended for use in four-stroke air-breather and turbocharged engines with or without SCR and operated with stoichiometric ratio ( $\lambda=1$ ) mixtures of natural gas, low-sulphur organic gas or lean gas. **LUKOIL EFFORSE XDI 4004** is also suitable for gas engines with pilot injection.

## TYPICAL TEST DATA

PROPERTY	Test methods	LUKOIL EFFORSE XDI 4004
Density at 20 °C, kg/m <sup>3</sup>	ASTM D4052	871
Kinematic viscosity at 40 °C, mm <sup>2</sup> /s	ASTM D445	134
Kinematic viscosity at 100 °C, mm <sup>2</sup> /s	ASTM D445	13.2
Viscosity index	ASTM D2270	108
Total Base Number, mg KOH/1 g oil	ASTM D2896	5.4
Sulphated ash, %	ASTM D874	0.48
Flash Point, COC, °C	ASTM D92	278
Pour Point, °C	GOST 20287 B	- 31

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"