

Stationary gas engine oil

IBIS NGO EXTRA

IBIS EXTRA NGO “medium ash” engine oils are intended for lubrication of heavy-loaded stationary engines fueled with natural gas of high content of acidic components or with other similar non-system gases (“sour gas” - such as biogas or land gas) of high content of sulfur and alike components.

The product contains selectively refined, solvent-deparaffined and hydro-refined oil distillates from crude oil. It is further enriched with a carefully selected set of anti-oxidizing and anti-corrosive additives that enlarge the alkaline reserve of the oil, enhance its cleaning-dispersing and lubricating properties and prevent residue formation.

Characteristics:

IBIS NGO EXTRA oils:

- are intended for lubrication of stationary engines fueled with acidic natural gases and other non-system gases of high content of H₂S and other similar impurities; particularly recommended for Waukesha, Caterpillar, Jenbacher and Guascor engines, as well as other similar engines that require moderate ash engine oils
- are created in response to the growing demand for lubrication of stationary engines fueled with gases of acidic character
- are also suitable for other engines fueled with gases, including:
 - landfill gas and sewage gas, characterized by a high content of hydrogen sulphide and other aggressive gas components
 - LPG gas

The product has the following properties:

- reduces engine parts wear
- prevents residue and fouling formation
- prevents piston rings from seizing
- enables trouble-free start of the engine at low temperatures
- reduces the amount of engine oil refills
- SAE 10W-40 class enables quick start of the engine and automatic oil refill administration in conditions of extremely low winter temperatures
- complies with regulations concerning emission of harmful exhausts
- do not contain any bright stock (which can contribute to deposit formation)

№	Requirements	Test methods	Unit	Value	
				40	10W-40
1.	Kinematic viscosity at 100 ⁰ C	ASTM D-445	mm ² /s	14.9	14.5
2.	CCS dynamic viscosity at - 25 ⁰ C	ASTM D-5293	mPa*s		6400
3.	Viscosity index	ASTM D-2270		110	140
4.	Pour point	ASTM D-5950	⁰ C	-27	-39
5.	Flash point	PN-EN ISO 2592	⁰ C	228	232
6.	Total base number	ASTM D-2896	mgKOH/g	10.1	10.1
7.	Sulphated ash content	ASTM D 874	% m/m	1.00	1.05

The above data consists of values typical for a production batch, which are not included in technical specifications, and are subject to change due to continual product research and development.

Classifications and specifications:

API CF, SAE: 40; 10W-40

CAT, Waukesha

Packaging:

26kg, 180kg, 1 tonne

Storage:

All containers should be stored in roofed areas. If the barrels are kept in open-air areas, where they may be exposed to atmospheric factors such as rain, they should be placed in the horizontal position to prevent water access and labelling damage, preferably covered with a tarpaulin.

The product cannot be stored in temperatures lower than 0°C or higher than 60°C, nor can it be exposed to direct sunlight. If proper storage requirements are met, the period of 3 years.

Health, Industrial Safety and the Environment:

All safety information is included in the product's Material Safety Data Sheet, which contains detailed information concerning potential threats, safety precautions and first aid measures, as well as information concerning the product's impact on the environment and disposal considerations.

LOTOS Oil S.A. and the cooperating companies do not assume any responsibility for misuse of the product or for neglecting the given precautions. Should the product be used for purposes other than those enumerated above, seek advice at the local LOTOS Oil S.A. office beforehand.

The information provided in this data sheet is not intended to constitute an offer within the meaning of the Act of 23rd April 1964 - Civil Code. LOTOS Oil S.A. bears no responsibility for whatever effects of use (particularly in trade and investment decision-making) of information contained herein. Any data contained in the MSDS are typical process tolerance values and they are subject to change due to continual product research and development. Information provided in this document may undergo changes. LOTOS Oil S.A. is not responsible for the product availability.

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