

Motor oil

IBIS RDEO

Summer motor oil of RDEO (Rail Diesel Engine Oil) type. It is formulated on the base of selectively refined, solvent dewaxed and hydrorefined oil distillates received from crude oil. The oil contains a package of anti-oxidation and anticorrosion additives as well as the attributes improving washing and dispersing, lubrication, viscosity and temperature properties.

The oil guarantees excellent lubrication of four-stroke Diesel engines and is applied in engines of rail machines, other terrestrial stationary machines and marine machines where very high potential of cleaning and neutralizing properties is required. The oil meets the requirements of LMOA generation V.

Characteristics:

- reduces engine elements wear,
- protects engine against deposits and carbon deposits formation,
- prevents piston rings from seizing,
- guarantees high potential of washing and dispersing,
- very high viscosity of SAE 40 class,
- high potential of dispersing and neutralization TBN >13mgKOH/g,
- removes deposits of soot and black sludge from lubricated surfaces,
- high oxidation resistance,
- protection of lubricated surfaces against wear,
- stability of oil viscosity during performance,
- guarantees optimum viscosity for overload engines,
- reduces refills,
- meets the requirements relating to emission of harmful exhaust gases contents.

No.	Requirements	Research methods by	Unit	Value
1.	Kinematic viscosity at 100 ⁰ C	ASTM D-445	mm ² /s	14,5
2.	Pour point	ASTM D-5950	⁰ C	- 27
3.	Flash point	PN-EN ISO 2592	⁰ C	250
4.	Base number	ASTM D-2896	mgKOH/g	13,3
5.	Viscosity index	ASTM D-2270		99
6.	HTHS dynamic viscosity at 150 ⁰ C	ASTM D-4741	mPa*s	4,10
7.	Sulfated ash content	PN-82/C-04077	% m/m	1,78

The above given data are values received at normal tolerance of production batch, they are not included in technical specification and they can undergo changes for constant development of the product.

Application:

The oil is applied mainly for lubrication of locomotive diesel engines, auxiliary marine engines and stationary aggregates working in difficult operation conditions.

Specifications, classifications:

SAE: 40

API: CF/SF/CF-4

LMOA V generation

Packaging:

180 kg, 1 tonne

Storage:

The products should be stored under a roof. If they are stored in the open air where they can be exposed to atmospheric conditions – rains, they should be placed in a horizontal position in order to avoid inrush of water to a container and to prevent label damaging; they should be covered with tarpaulin.

The products should not be stored at the temperature above 60°C and in the places where solar radiation is very strong or – temperatures very low. The expiry date is 3 years if the storage conditions are satisfied.

Health, industrial safety and the Environment :

Information concerning safety is included in the product Safety Sheet. It contains detailed information on possible threats, warnings, first aid as well as the impact on the environment and ways of utilization of the used products. LOTOS Oil SA and the cooperating companies do not take responsibility for misuse of the product or – the use with the violation of the precautions given. Before using the product for other than recommended purposes, seek advice in the local LOTOS Oil SA office.

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