LOTOS Oil

Motor oil

MARINOL RG 2030, MARINOL RG 2040

Motor marine oils Marinol RG 2030; 2040; 2050 are formulated on the base of deeply refined, solvent dewaxed and hydrorefined oil distillates received from crude oil. They contain a properly selected package of washing and dispersing additives as well as anti-oxidising, anticorrosion, antirust and anti-wear attributes.
Marinol RG2030; 2040 are designed for circulating and cylindrical lubrication of marine anhydride engines in the main drive and current-generating aggregates powered with fuels of higher sulphur content (up to about 2%).
Marinol RG 2050 is designed for lubrication of cross-head engine cylinders during running-in and in working conditions when low-sulphur fuels are consumed.
Marinol RG 2030; 2040; 2050 are TPEO (Trunk Piston Engine Oil) type oils that meet the API CD requirements.

Characteristics

Marinol RG 2030; 2040; 2050:

- quarantee effective lubrication of an engine cylindrical system and an assembly of crankshaft, pistons and connecting rods,
- provide excellent engine cleanness and protection against corrosion,
- prevent deposits and carbon deposits formation reducing engine wear,
- guarantee well heat retraction,
- minimise the amount of low-temperature and high-temperature deposits formed during engine operation,
- neutralise the acid products of fuel combustion,
- guarantee excellent anti-wear protection of the lubricated surfaces, protecting particularly against scuffing,
- reduce refills.

№	Requirements	Research methods by	Unit	Value		
				RG 2030	RG 2040	RG 2050
1.	Kinematic viscosity at 100^0C	ASTM D-445	mm^2/s	11,5	14,5	22
2.	Pour point	ASTM D-5950	^{0}C	-21	-24	-20
3.	Flash point	PN-EN ISO 2592	^{0}C	230	260	260
4.	Base number	ASTM D-2896	mgKOH/g	20,5	20,5	20,5
5.	Viscosity index	ASTM D-2270		93	96	94
6.	Corrosion effect at 100^0C, 3h,Cu	PN-EN ISO 2160 ASTM D-130	degree	1	1	1

The above given data are typical values for a production batch, they are not included in the technical specification, and they are subject to change due to continual product research and development

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Classification, specification:
RG 2030 – SAE 30; RG 2040 – SAE 40
RG 2050 – SAE 50
API: CD
Meet the requirements of the engine manufacturers: Pielstick (20PA6-280); MAN-B&W; MAN Augsburg; New Sulzer Diesel; Wartsila

Packaging:
180kg, 1 tona

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^{o}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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