

# M-10G<sub>2</sub>CS, M-14G<sub>2</sub>CS, M-16G<sub>2</sub>CS, M-14DCL20, M-14DCL30

Motor Oils for Marine, Locomotive, and Stationary Diesel Engines

## **MEETS REQUIREMENTS**

API CC, CD (LUKOIL M-14DCL20, M-14DCL30)

## **PRODUCT DESCRIPTION**

**M-10G<sub>2</sub>CS, M-14G<sub>2</sub>CS, M-16G<sub>2</sub>CS, M-14DCL20, M-14DCL30** are mineral motor oils with high quality additives.

## **APPLICATION**

**M-10G<sub>2</sub>CS** is designed for reduction gears, compressors, and other marine equipment, requiring oils with high water resistance. It is recommended for circulation oil systems of low-speed marine diesel engines by PO "Bryansky Machine Plant" and similar models of foreign manufacturers.

**M-14G<sub>2</sub>CS** is suitable for reduction gears, stationary, marine engines, and other marine equipment, including Sulzer, Pielstick, etc. It is widely used in locomotive diesels similar to ChN26/26, stationary diesel generators with ChN40/46 type engines. This oil offers high water resistance and water separating properties at spinning.

**M-16G<sub>2</sub>CS** is designed for oil circulation systems, marine high power diesel piston engines, lubrication systems of low-speed diesel engine cylinders, where M-16 G<sub>2</sub>CS (SAE 40) oils are recommended for

operation on heavy fuels with sulfur content up to 1.5 wt %.

**M-14DCL20** is used in marine moderate-speed piston engines with circulation or combined oil systems. It is recommended for operation on heavy fuels with sulfur content up to 3.0 wt %. This oil offers good water resistance and low tendency to form emulsion with water, as well as easily separates water.

**M-14DCL30** is designed for marine moderate-speed piston engines with circulation or combined oil systems. It is used in operation on heavy fuels with sulfur content above 3.0 wt %. This oil offers good water resistance and low tendency to form emulsion with water, as well as easily separates water.

## **BENEFITS**

- Multipurpose performance
- Maximal protection against sludge when powered with residual fuel
- Combustion acid neutralization
- Reduction of engine component wear
- Protection against corrosive attack of sea water and rust
- High thermal and oxidative stability
- Good filterability and water separation

The product name in an order:

Motor oil for diesel engines M-10G<sub>2</sub>CS, GOST 12337-84

Motor oil for diesel engines M-14G<sub>2</sub>CS, GOST 12337-84

Motor oil for diesel engines M-16G<sub>2</sub>CS, GOST 12337-84

Motor oil for diesel engines M-14DCL20, GOST 12337-84

Motor oil for diesel engines M-14DCL30, GOST 12337-84

## **TYPICAL TEST DATA**

PROPERTY	Test Methods	M-10G <sub>2</sub> CS	M-14G <sub>2</sub> CS	M-16G <sub>2</sub> CS	M-14DCL20	M-14DCL30
SAE grade		30	40	40	40	40
Density at 20 °C, kg/m <sup>3</sup>	GOST 3900	894,2	896,9	898,6	898,1	908,0
Kinematic viscosity at 100 °C, mm <sup>2</sup> /s	GOST 33	10,7	14,1	16,3	13,8	14,5
Viscosity index	GOST 25371	95	94	95	97	99
Flash Point, COC, °C	GOST 4333	255	261	267	240	258
Pour Point, °C	GOST 20287 B	-15	-15	-14	-12	-12
Total base number, mg KOH/1 g oil	GOST 11362	10,6	10,5	10,2	20,4	29,2
Sulphated ash, %	GOST 12417	1,4	1,4	1,4	2,4	3,9

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".