

# LUKOIL TM-9p TRANSMISSION OIL (TM-5-9<sub>3</sub>, SAE 75W-80, API GL-5)

## Railway Transmission Oil

### APPROVALS:

Russian Railways, OJSC

### PRODUCT DESCRIPTION

**LUKOIL TM-9p** is designed for greasing rolling stock gears operating in extremely adverse conditions in terms of high loads and sliding speed, including shock loads, as well as in hypoid steams of passenger cars, trucks and manual gearboxes.

The **LUKOIL TM-9p** is manufactured by mixing base oil with an additive package enhancing its extreme scoring resistance, anti-wear, anticorrosive, viscosity-temperature and anti-foam properties. It is produced at the newest and most up-to-date production facility in Russia.

### APPLICATION

The **LUKOIL TM-9p** is recommended for use as

**The product is manufactures as per STO 65561488-008-2011**

a transmission oil for greasing rolling stock gear systems, vehicle gearboxes, as well as other units and devices, where the following types of oil are recommended: TM-5-9z, SAE 75W-80, and API GL-5.

### BENEFITS:

- Excellent adhesive properties preventing dry friction leading to intense wear of gear sets;
- The well-balanced package of anti-wear and scoring resistance additives protects the gears subjected to strong dynamic and shock loads and extends the service life of units and devices;
- Approved for use in the rolling stock gear systems of Russian Railways.

### STANDARD CHARACTERISTICS

PROPERTY	LUKOIL TM-9P
Kinematic viscosity, mm <sup>2</sup> /s	
• at 50 °C, or less	36.0
• at 100 °C, or less	9.0
Viscosity index, or more	140
Density at 20°C, kg/m <sup>3</sup> , or less	910
Weight percentage of impurities, %, or less	0.05
Pour point, °C, or less	-50
Weight percentage of water, %, or less	Traces
Weight percentage of sulphur, %, or more	1.2
Dynamic viscosity at -45 °C, Pa·s, or less	150
Acid number, mg KOH per 1 g of oil, or less	1.5
Corrosion test on grade 40, 45 or 50 steel plates as per GOST 1015 and grade M2 copper plates as per GOST 859	Resistant
Four-ball tribological properties:	
• Load wear index, N (kgf), or more	490 (50)
• Weld load, N (kgf), or more	3283 (335)
• Critical load, N (kgf), or more	980 (100)
• Wear scar diameter (D <sub>i</sub> ) at an axial load of 40 kgf at (20±5) °C during 1 hour, mm, or less	0.90

The standard product characteristics are average values and do not constitute the manufacturer's specification. They can be subject to change in accordance with the requirements of INTESMO, LLC. Please contact the technical support team for any question related to the application and replacement of grease products manufactured by INTESMO, LLC.