G-Special TO-4 10W, 30, 50

UNIVERSAL Multipurpose

POWERSHIFT Powershift transmissions

 Hydraulic systems

 Enhanced frictional properties



Stable viscosity

 Anti-wear protection

 High-quality mineral base oils

G-Special TO-4 10W, 30, 50 – a series of transmissions and hydraulic fluids based on the high-quality base stocks and designed for off-road, mining, construction and other equipment. Specially formulated for highly loaded powershift transmissions, hydraulic systems and oil-immersed brakes in order to meet requirements of Caterpillar, Komatsu and other manufacturers specifications. Fluids have excellent frictional properties and anti-wear protection of working surfaces of the mechanisms.

Application



- Mining and construction equipment, including Caterpillar, Komatsu.
- Off-highway applications, where fluids Caterpillar TO-4 specification are recommended for use.
- Designed for use in powershift transmissions, hydraulic systems, oil-immersed brakes and clutches (SAE 10W, SAE 30).
- Possible to use in final drives, power takeoff systems, differential units.
- Not applicable for unites where UTTO oils are specified.

Features/Advantages and Potential Benefits

G-Special TO-4 series of oils with the increased levels of anti-wear additives allows to provide high efficiency of transmissions and hydraulic systems under severe operating conditions :

Characterisitcs	Advantages/Potential Benefits
Stable frictional properties	Ensuring of smooth operation of clutches and brakes – reliable equipment operation.
High oxidation stability	Corrosive acids formation minimizing – service life maintaining of the equipment parts.
Good anti-wear capability	Hydraulic drives and gears protection – repair cost reduction.
High viscosity stability	Maintaining of viscosity characteristics during operation - reliable lubrication of working surfaces.
Compatibility with the sealing materials	Inertness to sealing materials helps to minimize leaks – lubricant costs reduction.
Versatile application	Possibility of application in hydraulic systems and transmission units – saving space and storage costs.

Typical physical and chemical characteristics

Properties	Value			Method
	10 W	30	50	
Kinematic Viscosity @100°C, mm2/s	6,6	11,3	19,8	ASTM D 445
Viscosity index	110	96	96	ASTM D 2270
Flash Point (COC), °C	246	250	258	ASTM D 92
Pour Point , °C	-42	-30	-20	ASTM D 97
Density @ 15 °C, kg/m^3	882	894	904	ASTM D 4052

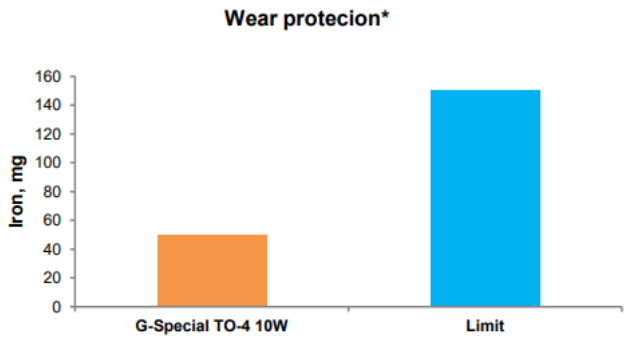
Gazpromneft-Lubricants Ltd.
14/3 Block A, Krzhizhanovskogo St., Moscow, 117218 Russia
Tel: +7 (495) 642-99-69
Fax: +7 (495) 921-48-63

The above data are typical for the products currently available. Due to ongoing research and development, the information contained in the document is subject to change. Information on the safe use of the product is contained in the Safety Data Sheet. More detailed information can be obtained from the company's technical specialists. E-mail: Techservice@gazprom-neft.ru. 11/2024

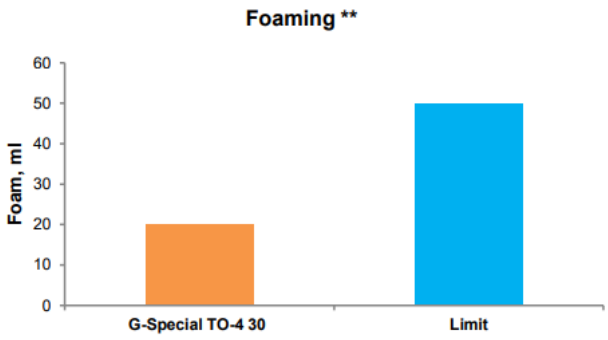
Specifications

- Caterpillar TO-4
- Allison C-4
- Komatsu KES 07.868.1
- ZF TE-ML 03C (G-Special TO-4 10W, 30), 07F (G-Special TO-4 50)

Transmission and hydraulic oils G-Special TO-4 10W, 30, 50 exceed the requirements of the main specifications according to the tests:



G-Special TO-4 10W helps to minimize wear of gear teeth and maintains their service life.



Low foaming tendency
G-Special TO-4 30 allows to increase the productivity of the hydraulic system.

*FZG Test wear , **ASTM D892 Test.

The company's management system is certified in accordance with the international standards

ISO 9001

ISO 14001

ISO 45001

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