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MTF III Fluid

Multipurpose lubricant for automatic transmissions, torque converters, steering systems and hydraulic clutches.

PAKELO MTF III FLUID is a high performance, high technology multipurpose lubricant developed for automatic transmissions and powershift transmissions.

Modern vehicles and new transmission designs place greater stress on automatic transmission fluids. The trend of improving fuel economy performance and vehicle aerodynamics has caused less airflow for transmissions, thereby increasing operating temperatures.

This, combined with reduced oil quantities in the system, results into severe thermal stress on the fluid. This technology is aimed at avoiding problems caused both at low and high working temperatures and to maintain the same performance and correct friction coefficient for longer periods.

PAKELO MTF III FLUID provides anti-oxidative, anti-rust, anti-corrosion and anti-foam properties. It also provides Very High Viscosity Index, very low Pour Point, high Flash Point and high chemical inertia towards rubber gaskets.

The product has excellent fluency at low temperatures (Brookfield Viscosity is less than 20.000cP at -40°C) and furthermore it shows excellent resistance to oxidation and sludge formation (especially at high operating temperatures).

This means that it can be used under high thermal excursion conditions.

PAKELO MTF III FLUID enables to increase considerably transmissions life in extreme climatic and working conditions.

PAKELO MTF III FLUID provides the following main properties:

- high thermal-oxidative resistance and excellent fluency at low temperatures;
- superior EP and anti-wear properties for longer period if compared to traditional Automatic Transmission Fluids;
- excellent protection from corrosion;
- excellent anti-rust and antifoam characteristics;
- reduction of sludge and deposits thanks to high detergent and dispersant properties;
- correct friction coefficient for longer period if compared to traditional Automatic Transmission Fluids; this avoids vibration phenomena and allows correct gear shifting;
- very high shear stability even under high mechanical stresses: this keeps the viscosity properties of the lubricant similar to the starting conditions;
- longer oil drain intervals also in extreme working conditions;
- compatibility with gaskets.

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Application fields

PAKELO MTF III FLUID is a multipurpose lubricant recommended for automatic transmissions of heavy duty vehicles.

The chemical-physical characteristics of PAKELO MTF III FLUID allow the product to be used also in manual, hydrostatic and hydrodynamic transmissions, torque converters, steering systems, hydraulic clutches, hydraulic systems and industrial applications when required an Automatic Transmission Fluid.

Performance levels

General Motors DEXRON® III, Allison C4.

Chemical-Physical Characteristics

MTF III Fluid	Method analysis	Unit measure	Value
Density at 15°C	ASTM D1298	kg/l	0,850
Kinematic Viscosity at 40°C	ASTM D445	cSt	34,7
Kinematic Viscosity at 100°C	ASTM D445	cSt	7,1
Viscosity Index	ASTM D2270	-	173
Brookfield Viscosity at -40°C	ASTM D2983	cP	13.500
KRL Shear Stability (Stage C - 20 Hour) at 100°C	CEC L45T93	%(cSt/cSt)	18,6
Kinematic Viscosity at 100°C after KRL (Stage C)	CEC L45T93	cSt	5,8
Flash Point (C.O.C.)	ASTM D92	°C	215
Pour Point	ASTM D97	°C	-44
Test FZG (A/8,3/90) Failure Load Stage	ASTM D2882	Stage	> 12

The data just above refer to average values and must not be understood as guaranteed characteristics.

This Technical Data Sheet has been carefully checked to guarantee complete and precise information. However, we do not take any responsibility in case of damages caused by any mistakes or omissions. Due to continual product research and development, the information contained herein is subject to change without notification.