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Global Multigear TS

SAE 75W-90

Fully synthetic lubricant for not limited slip differentials and manual transmissions also working under heavy duty conditions.

PAKELO GLOBAL MULTIGEAR TS SAE 75W-90 is a special **fully synthetic** product formulated with selected base stocks and performance additives with a very high technological content.

The formulation is the result of an innovative chemistry studied for facing extreme working conditions in mechanical transmissions.

The special and updated additive package confers to PAKELO GLOBAL MULTIGEAR TS SAE 75W-90 high anti-oxidative, anti-wear, anti-rust, antifoam, EP (Extreme Pressure) properties, exceptional thermal stability, corrosion protection and total compatibility with synchronized transmissions and gaskets.

In particular, the EP addition contrasts micro-welding that can generate on cogs preventing in this way metal to metal contact and wear phenomena such as scoring, abrasion, ruffle, and cogs stretching also of hypoid gears.

PAKELO GLOBAL MULTIGEAR TS SAE 75W-90 provides excellent fluency at low temperatures (can easily flow at temperatures lower than -40°C).

This provides an almost immediate lubrication also under extremely rigid ambient conditions and/or at cold start-ups.

The High Viscosity Index means a more stable lubrication when temperatures change.

The thermal/oxidative stability of PAKELO GLOBAL MULTIGEAR TS SAE 75W/90 is guaranteed by the totally synthetic nature of the product.

PAKELO GLOBAL MULTIGEAR TS SAE 75W-90 provides the following main properties:

- excellent anti-oxidative, anti-corrosion, anti-rust, anti-foam characteristics;
- exceptional EP;
- excellent thermal stability;
- very low Pour Point;
- Very High Viscosity Index;
- excellent compatibility with gaskets, also at high temperatures;
- contrasts efficiently the formation of lacquers, sludge, and deposits;
- possibility to use the product both for the gearbox and the differential without ignoring Constructors' Recommendations.

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Application fields

PAKELO GLOBAL MULTIGEAR TS SAE 75W-90 has been developed for all non Limited Slip differentials (when the viscosity grade complies with request) manual transmissions, synchronized and non synchronized, final drives, mechanical transmissions, also transaxles.
Recommended for heavy duty vehicles and medium vehicles when a high performance lubricant is requested.

The choice of suitable viscosity grades must be made in compliance with Recommendations from Constructors and according to ambient temperatures.

Performance level

API GL-4 / GL-5, API MT-1, MIL-PRF-2105E, SAE J2360, MACK GO-J, MB 235.8, MAN 341 Type Z-2, MAN 342 Type S-1, SCANIA STO 1:0, SCANIA STO 2:0A FS, DAF (where API GL-5 or MIL-PRF-2105E axle lubricants are recommended for use), **DETROIT DIESEL DFS93K219.01, IVECO** (where MIL-PRF-2105E axle lubricants are recommended for use), **RENAULT** (in accord. with note technique B0032/2 annex 3), **VOLVO 97312, ZF TE-ML 02B / 05A / 07A / 08 / 12B / 12L / 12N / 16F / 17B / 19C / 21A, ARVIN MERITOR 0-76-N, ARVIN MERITOR Rear Axle Oil (400.000 km / 3 years - service C).**

Approvals

ZF TE-ML 02B / 05A / 12L / 12N / 16F / 17B / 19C / 21A (App. ZF001224), MB-Approval 235.8, ARVIN MERITOR Rear Axle Oil (400.000 km / 3 years - service C).

Chemical-Physical Characteristics

Global Multigear TS	Method analysis	Unit measure	Value SAE 75W-90
Density at 15°C	ASTM D1298	kg/l	0,870
Kinematic Viscosity at 40°C	ASTM D445	cSt	105,0
Kinematic Viscosity at 100°C	ASTM D445	cSt	15,5
Viscosity Index	ASTM D2270	-	156
Brookfield Viscosity at -40°C	ASTM D2983	cP	65.000
Kinematic Viscosity at 100°C after KRL (Stage C)	ASTM D445	cSt	13,8
Kinematic Viscosity at 100°C after KRL (100h)	ASTM D445	cSt	13,6
Flash Point (C.O.C.)	ASTM D92	°C	200
Pour Point	ASTM D97	°C	<-55
Test FZG (A/8,3/90) Failure Load Stage	DIN51354-2	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.