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Global Gear DLS

SAE 75W-140

Fully synthetic lubricant with **Alpha-Tech** for Limited Slip differentials and "Transaxle" transmissions also working under heavy duty conditions.

PAKELO GLOBAL GEAR DLS SAE 75W/140 is a special **fully synthetic** with **Alpha-Tech** 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 Limited Slip differentials and manual transmissions.

The special and updated additive package confers to PAKELO GLOBAL GEAR DLS SAE 75W/140 high anti-oxidative, anti-wear, antitrust, antifoam, **EP** (Extreme Pressure), **LS** (Limited Slip) properties, exceptional thermal stability, corrosion protection and total compatibility with synchronized transmissions/gaskets.

In particular, the EP additivation 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.

The use of a particular and specific Friction Modifier (**Limited Slip** additivation) enables to use the product in Limited Slip differentials reducing successfully stick-slip phenomena also under heavy specific loads. An excellent mechanic efficiency lessens operating noise.

Thanks to its special formulation the product can be used where a lubricant with an API GL-5 performance level is recommended.

Compatibility with synchronizers (also in molybdenum or bronze) and a correct friction coefficient enable this product to be used also where an API GL-4 is recommended.

The excellent compatibility with gaskets, also at high temperatures, allows the product to operate efficiently without losses and/or leaking guaranteeing greater environment concern.

PAKELO GLOBAL GEAR DLS SAE 75W/140 provides excellent fluency at low temperatures. This provides an almost immediate lubrication also under extremely rigid ambient conditions. The High Viscosity Index means more stable lubrication while temperature changes and furthermore improves life and operativeness of moving parts.

Tests made on transaxles at constant temperatures between 140°C and 160°C for more than 50 hours have shown very high thermal-oxidative stability, reduced formation of abrasive deposits and wear, exceptional resistance to the formation of sludge and lacquers, extreme cleanliness of gears and bearings, increasing in this way mechanical efficiency.

PAKELO GLOBAL GEAR DLS SAE 75W/140 provides the following advantages;

- excellent anti-oxidative, anti-corrosion, anti-rust, anti-foam characteristics;
- exceptional EP and LS properties;
- contrasts efficiently the formation of lacquers, sludge, and deposits;
- shows excellent thermal stability;
- excellent compatibility with gaskets, also at high temperatures;
- very low Pour Point;
- Very High Viscosity Index;
- total compatibility with synchronized transmissions (also in molybdenum and bronze).

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Application fields

PAKELO GLOBAL GEAR DLS SAE 75W/140 has been developed for Limited Slip differentials and "Transaxle" transmissions also working under heavy duty conditions.

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

Performance levels

API GL-4 / GL-5, API MT-1, MIL-PRF-2105E, SAE J2360.

Chemical-Physical Characteristics

Global Gear DLS	Method analysis	Unit measure	Value SAE 75W-140
Density at 15°C	ASTM D1298	kg/l	0,898
Kinematic Viscosity at 40°C	ASTM D445	cSt	191,8
Kinematic Viscosity at 100°C	ASTM D445	cSt	29,7
Viscosity Index	ASTM D2270	-	197
Brookfield Viscosity at -40°C	ASTM D2983	cP	135.000
Pour Point	ASTM D97	°C	-45
Flash Point (C.O.C.)	ASTM D92	°C	180

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.