

0014.18

STOU Fluid

SAE 15W/40

Universal lubricant suitable for the lubrication of engines, hydraulic systems, transmissions, differentials, final drives and axles of machines also with wet brakes/clutches.

PAKELO STOU FLUID SAE 15W/40 is a special universal lubricant for agricultural machines that allows to simplify lubrication.

The special and updated additive package used confers to PAKELLO STOU FLUID SAE 15W/40 anti-oxidative, anti-wear, anti-rust, anti-foam, detergent, dispersant, EP (Extreme Pressure) and LS (Limited Slip) properties: furthermore the product provides great thermal stability, protection from corrosion and good compatibility with gaskets.

Engines' emission are now ruled also in earth moving and agricultural sector even if emission limits result different from "on-road" field. Furthermore, drain intervals became longer and longer even in more severe working conditions.

This means that lubricants for new generation engines can be affected by an increase in soot content and must treat soot to avoid higher wear rate (of cylinders, pistons, valve train devices), oil thickening (less pumpability during start ups, higher working temperatures and higher fuel consumption), soot agglomeration (filter clogging) and higher level of deposits.

PAKELO STOU FLUID SAE 15W/40 is an API CF-4 performance level lubricant with new dispersant additives that allow to satisfy more severe and more recent API CI-4 and ACEA E7 Specifications. This helps reducing to the minimum any issue due to high soot content.

PAKELO STOU FLUID SAE 15W/40 is suitable for the lubrication of engines, transmissions (gearboxes, differentials, final drives, power take offs, hydraulic joints, torque converters, "powershifts") and hydraulic systems.

Furthermore, thanks to its Limited Slip characteristics and the optimization of friction coefficient, the product can be used in machines with wet brakes/clutches.

PAKELO STOU FLUID SAE 15W/40 provides the following characteristics:

- very good anti-oxidative, anti-wear, anti-rust, anti-foam, EP and LS characteristics;
- resistance to formation of lacquers, sludge, varnishes and deposits;
- great thermal stability;
- friction coefficient optimized to satisfy Constructors' specifications concerning wet brakes/clutches, hydraulic joints, torque converters, "powershift" transmissions, etc.;
- very good compatibility with gaskets even at high temperatures (this avoids any leakage of the product in the system);
- very high engine performance;
- single product solution for several applications.

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Application fields

PAKELO STOU FLUID SAE 15W/40 is recommended for the lubrication of engines, transmissions (also with wet brakes/clutches), power take offs, hydraulic, hydrostatic and steering systems of earth moving and agricultural machines when a STOU (Super Tractor Oil Universal) product is requested.

The choice of correct Viscosity Grade has to be taken in respect of Constructors' Recommendations and ambient temperatures.

Performance levels

The additive package used has enabled, in the set Viscosity Grades recommended by Constructors, to meet the following Performance Levels:

TRACTOR OEM SPECIFICATIONS: John Deere JDM J27, Ford M2C159-B, Massey Ferguson CMS M1139, Massey Ferguson CMS M1144, Massey Ferguson CMS M1145.

TRANSMISSION SPECIFICATIONS: API GL-4, Allison C4, Caterpillar TO-2,

ZF TE-ML 06B / 06C / 06D / 07B.

ENGINE SPECIFICATIONS: API CF-4 / CF / CE, API SF, ACEA E2, MIL-L-2104D, MB 228.3, MB 228.1, MB 227.1, MAN 271, (API CI-4 / ACEA E7-08 level of soot control), (ACEA E4-08 / MB 228.3 level of wear performance), (ACEA E7-08 / MB 228.3 level of piston cleanliness).

Approvals

ZF TE-ML 06B / 07B.

Chemical-Physical Characteristics

STOU Fluid	Method analysis	Unit	Value SAE 15W/40
Density at 15°C	ASTM D1298	kg/l	0,886
Kinematic Viscosity at 40°C	ASTM D445	cSt	101,0
Kinematic Viscosity at 100°C	ASTM D445	cSt	13,7
Viscosity Index	ASTM D2270	-	136
C.C.S. Viscosity at -20°C	ASTM D5293	cP	6.700
T.B.N. (Total Base Number)	ASTM D2896	mg(KOH)/g	10,2
Sulphated Ash	ASTM D874	% (w/w)	1,5
Flash Point (C.O.C.)	ASTM D92	°C	>220
Pour Point	ASTM D97	°C	-33
Test FZG (A/8,3/90) Failure Load Stage	DIN51354-2	Stage	10

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.