A Publication of the Lubrication Engineers technical Department

LEADERS IN LUBRICANTS NUMBER 61

A "UNIVERSAL" TYPE WET BRAKE SYSTEM FLUID FOR ALL TRACTORS

WHAT IS A UNIVERSAL TRACTOR FLUID?

- A single fluid that can be used with confidence in all major U. S. makes and in most makes of imported tractors.
- A fluid which performs three major functions: As a lubricant for gears, pumps and bearing A heat transfer medium for wet brakes and clutches A hydraulic fluid

WHY THE NEED FOR A UNIVERSAL HYDRAULIC/TRANSMISSION TRACTOR FLUID?

• Tractor designs, beginning in the 1960s required a fluid with the multifunctional properties needed for a special gear/hydraulic or hydraulic/transmission fluid. Gear lubricants were either too viscous or the additive chemistry too "active" for hydraulic fluid. As motor oil lacks the unique friction properties for wet brake systems, hydraulic oils couldn't properly lubricate the gear trains.

IS LE'S 7500 MONOLEC POWER FLUID A UNIVERSAL TRACTOR FLUID?

• Yes; it is a universal type gear/hydraulic, hydraulic/transmission fluid for agricultural and construction tractor equipment.

HAS LE'S 7500 MONOLEC POWER FLUID BEEN UPDATED AND UPGRADED TO MEET THE CHANGING SPECIFICATIONS FOR GEAR/HYDRAULIC OR HYDRAULIC/TRANSMISSION FLUID OF THE MANY OEMs?

• Yes. LE's 7500 MONOLEC Power Fluid has been, and will be, modified to meet demands of new models as they are introduced to the marketplace. Today's tractors are mechanical marvels powered by diesel and/or gasoline engines and are equipped with sophisticated hydraulic devices that can be incorporated into the OEM's basic design to transmit power and perform various jobs faster and more efficiently, thus eliminating much manual labor.

CAN LE'S 7500 MONOLEC POWER FLUID BE USED IN MANY MAKES OF TRACTORS?

• Yes, LE's 7500 MONOLEC Power Fluid is recommended as an oil for all "common sump" system service in tractors where the following specifications are prescribed.

MANUFACTURER	PRODUCT DESIGNATION
Caterpillar	TO-2
John Deere	Type 303 Fluid (J14B), J14C, J20A (Hygard), J21 A
International Harvester	Hy-tran B-6
Ford	M2C41-B, M2C53-A, M2C86-B, M2C134-D-C-B, M2C48-B, M2C77-A
Allis-Chalmers	Power Fluid 821, Spec 246634, Spec 257541, Spec 25743
J. I. Case	JIC-185 (TFD Fluid), JIC-145, JIC-144, JIC- 143, MS-1205 (TFDII), MS-1210 (TCH), MS- 1204 (TFD Fluid) MS-1206 (Powergard PTF)
Massey-Ferguson	M-1110, M-1127, M-1129-A, M-1135 (Permatran III)
White Farm (Oliver & Minneapolis-Moline)	UHTF, Type 55, MYH, HY
Steiger, Duetz, Versatile	Hydraulic/Transmission Fluid
Sunstrand	Hydrostatic Transmission Fluid
Renk	Bus ATF

CAN LE'S 7500 MONOLEC POWER FLUID BE USED AS A GASOLINE OR DIESEL MOTOR OIL?

• No, it is in no way built to meet engine oil requirements.

WHAT FUNCTIONS DO THE CHEMICAL ADDITIVES IN LE'S 7500 MONOLEC POWER FLUID PERFORM?

• While petroleum lubricating oils are excellent in many applications, their performance is enhanced when selected chemical compounds are added. Such "blends" perform functions that the basic lubricating oil can't perform.

- Generally 10 basic functions are required:
 - 1. **Oxidation stability**-to reduce thickening, gumming and "varnish" formation.
 - 2. **Wear-reducing EP**-to reduce wear on bearings, cams, pumps, gearing, etc.
- 3. **Frictional characteristics**-to provide the proper coefficient of friction where needed in wet- brakes, wet-clutches and hydrostatic and power-shift transmissions.
- 4. **High viscosity index**, **high temperature stability**-to prevent thinning out and vaporization at high temperatures.
- 5. Low temperature viscosity-to keep the oil fluid and flowable at low temperatures.
- 6. **Antirust and corrosion protection**-to prevent rusting and corrosion of all parts of the tractor in contact with the fluid.
- 7. **Seal compatibility**-to prevent chemical damage to the seals.
- 8. Antifoam-to prevent foaming that reduces power and reduces heat transfer.
- 9. Filterability-to help maintain the service life of the filter and oil.
- 10. **Water tolerance**-allows the fluid to perform properly in the tractor even when small amounts of water

are present.

WHAT ARE SOME OF THE PHYSICAL CHARACTERISTICS OF LE'S 7500 MONOLEC POWER FLUID?

Refer to LE's 7500 MONOLEC Power Fluid Technical Data Bulletin and Flyer.

WHY SHOULD YOU USE LE'S 7500 MONOLEC POWER FLUID?

- To protect your investment, by making your tractor last longer, keep your tractor running as it was designed, avoiding costly breakdowns and reducing costs of expensive repairs and replacement parts.
- To reduce confusion. Many operators have more than one make of tractor. When using LE's 7500 MONOLEC Power Fluid, they don't have to worry about which hydraulic/transmission fluid to use for what tractor.
- There is less risk of misapplication and contamination when using this one hydraulic/transmission fluid from one container.
- Buy one brand of oil for all units, rather than several brands, or the oils of several tractor manufacturers.
- Save money by reducing the amount tied up in a larger, more varied lubricant inventory.
- It's convenient to use when the equipment is widely disbursed. Only one hydraulic/transmission fluid to carry around instead of several.

Use LE's 7500 MONOLEC Power Fluid with confidence. It is a technically advanced product, updated as the OEM's requirements change, and it has been proven through years of field service in all models ^ of agricultural and construction tractor equipment.

