



# Lubricants Report



## Product Data Sheet from Shell Lubricants

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### DONAX\* TD & TDL UNIVERSAL TRACTOR FLUIDS

#### PRODUCT LINE

**Donax TD** continues to provide excellent lubrication in a wide variety of farm, construction, and forestry equipment. It is used where a common reservoir supplies oil to the transmission, hydraulic system, differential, and final drive. **Donax TDL** is designed for winter use in similar applications. **Donax TD** and **Donax TDL** are recommended for a large number of both new and older tractors including most auxiliary implements. Please refer to the older specification guide for details. These recommendations are further backed by field tests in over 200 tractors and combines with no oil-related failures.

#### PERFORMANCE BENEFITS

- **Excellent Gear Protection - Extends Drivetrain Life:** Dramatically improved extreme pressure and anti-wear characteristics protect gears from galling, spalling, and degradation
- **Increased Pump Protection - Extends Life of Hydrostatic Drives:** Excellent filterability and anti-wear properties provide better protection of critical hydraulic and transmission components
- **Superior Oxidation Properties - Extends Lubricant Life:** Improved oxidation and corrosion inhibitors protect exposed metal surfaces and minimize the affects of oil oxidation
- **Next Generation Brake Noise Suppression - Quiets Noisy Brakes:** Utilizes the latest formulation technology to suppress brake noise, smooth equipment operation, and maintain brake and clutch capacity longer

#### RECOMMENDED APPLICATIONS

It is not possible to meet every manufacturer's lubricant specifications for Universal Tractor Fluid with one product; however, Donax TD and Donax TDL (use only in the winter) will provide acceptable performance in all tractors specifying a Universal Tractor Fluid. We are pleased to offer the Shell Guarantee as our assurance of the finest lubricant performance in these applications.

Donax TD and Donax TDL (where noted) have been tested and approved for John Deere JD20C and JD20D (winter version with Donax TDL), New Holland M2C134D, New Holland 2-D.201.00, Massey Ferguson M1143, M1135 (winter version with Donax TDL), Volvo WB 101, and Caterpillar TO-2.

Donax TD and Donax TDL (winter use only) are recommended as replacement fluids for the following manufacturers products:

- Case Hy-Tran Plus®, Hy-Tran Ultra®
- Deutz-Allis 821XL®
- Kubota Universal Transdraulic Fluid®
- Massey Combines Corporation PERMATRAN III®
- New Holland Hydraulic Oil 134®
- AGCO Powerfluid 821XL®
- Versatile HyGear Fluid®
- White Ag ONE Universal Fluid®

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## OLDER APPLICATION SPECIFICATION GUIDE

**Donax TD** and **Donax TDL** (for winter only)) have provided excellent performance in field tests in all of these applications and Shell's guarantee covers **Donax TD** and **Donax TDL** (for winter only) as replacements for all OEM branded products listed in this guide.

Original Equipment Manufacturer (OEM)	Fluid Specification	OEM's Brand Name
Belarus	Tractor Hydraulic Fluid	
J. I. Case (including International Harvester and Steiger)	JIC-145/MS-1210 JIC-185/MS-1204 JIC-185/MS-1205 MS-1206 MS-1207 (current) JIC 143/144 B6 (International Harvester) SEMS 17001 (Steiger)	- - - Powerguard PTF Fluid Hytran Plus Hytran Plus
Caterpillar	TO-2 (obsolete)	
John Deere	J20C, J20D (J20A, J20B) J14B,C J21A	
Deutz-Allis, Allis-Chalmers (Agco)	Part No. 9003088, 9003089, 9003090, 9003091	Power Fluid 821/821XL
New Holland, Ford New Holland (Fiat), Versatile	ESN-M2C41-B ESN-M2C48-B, M2C48-C/C2/C3 ESN-M2C53-A ESN-M2C86-B ESN-M2C134-A,B,C ESN-M2C134D (current) Versatile	Ford Hydraulic Oil 41 - - Ford Hydraulic Oil 41 - Hygear Fluid 23M, 24M Type 303 Fluid
Hesston, Hesston - Fiat	AF-87 (current)	Olio Fiat Tutela Multi-F
Kubota	-	UDT (current)
Massey - Ferguson, Minneapolis Moline, New Idea, Oliver (Agco)	M1110 M1127A,B M1129-A M1135 M1141 Q-1705,Q-1766,Q-1722, Q-1802 Q-1826 (current)	- - - Permatran III - - UHTF Type 55

## TYPICAL PROPERTIES

	DONAX TD	DONAX TDL	
PRODUCT CODE	436-104	436-103	ASTM TEST METHOD
Density at 15°, kg/m <sup>3</sup>	879.3	879.3	D 1298
Pour Point, °C max.	-42	-57	D 97
Flash Point, °C	226	184	D 92
Viscosity Kinematic - cSt (mm <sup>2</sup> /s) at 40°C - cSt (mm <sup>2</sup> /s) at 100°C	56.26 9.36	32.59 7.12	D 2983 D 2983
Brookfield  - cP(mPa.s) at -35°C - cP(mPa.s) at -40°C	53,000 --	7,000 15,000	D 2983 D 2983
Viscosity Index	149	190	D 2270

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MSDS requests? Please call 1-800-661-1600 or fax your request to (403) 691-3997

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