Shell ROTELLA® HD Tractor Fluid

*Premium transmission-hydraulic-wet brake fluids for tractors*

Shell ROTELLA® HD Tractor Fluid is a premium quality fluid for use in transmissions, hydraulic systems, oil immersed brakes and other ancillary systems fitted to agricultural tractors and off-road equipment. It is an exceptional universal tractor fluid specially formulated for use where a common fluid reservoir serves transmissions, final drives and hydraulic systems.

**Performance Features and Benefits**
- Incorporates a friction modifier for proper noise-free operation of wet-brakes
- Excellent low temperature fluidity provides good response at low temperatures
- Shell ROTELLA® HD Tractor Fluid provides excellent service in virtually all makes of construction and farm tractors
- Is frequently used as a single fluid to prevent accidental contamination or misapplication and to eliminate the need to purchase and keep in inventory several products for most farm and construction equipment

**Main Applications**
- Tractors and other equipment using a common fluid to lubricate the transmission, differential and hydraulic systems
- Caterpillar powershift transmissions requiring a TO-2 Fluid
- Mobile equipment using Sundstrand hydrostatic transmissions
- Mobile and industrial hydraulic systems operating over a wide temperature range

Shell ROTELLA® HD Tractor Fluid is not suitable for Caterpillar TO-4 service. (Where Shell DONAX® TC is required.)

Shell ROTELLA® HD Tractor Fluid is not recommended for Allison C-4 service. The Allison Transmission Division of General Motors has revised its C-4 approvals to no longer include tractor hydraulic fluids (THFs). Shell DONAX® TC, Shell ATF or Shell ROTELLA® T of the correct viscosity are recommended for this application.

Advice on applications not covered in this handbook may be obtained from your Shell representative.

**Specifications, Approvals, and Recommendations**

Although it may differ from manufacturers’ recommended fluids, Shell ROTELLA® HD Tractor Fluid is suitable for use in all of the following applications.

- AGCO (Deutz-Allis) Powerfluid 821XL, PF821 Allis-Chalmers 257541
- Case JIC-143, 144, 145, 185
- Case MS-1204, MS-1206(PTF), MS-1207 (Hy-Tran Plus), MS-1209, MS-1210 (TCH Fluid)
- Caterpillar TO-2
- Clark
- Dennison HF-0, HF-1, HF-2
- John Deere JDM J20A, B, C, J14B/C, JD303
- Hesston-Fiat AF-87
- Kubota UDT Fluid
- International Harvester IHC B-6 (Hy-Tran) and B5 (also see Case)
- Landini
- Massey Ferguson M1110, 1127A/B, 1129A, 1135, M1141 (Permatran III)
- Minneapolis-Moline
- Oliver Type
- Renk Transmissions
- Steiger SEMS 17001
- Versatile [now New Holland] 23M, 24M
- Vickers M-2950-S, I-286-S, 35VQ25
- Volvo WB-101
- White Farm Q-1826, -1705, -1722, -1766B, -1802 (Type 55) [also see AGCO]
- ZF TE-ML-03E
Storage Requirements
Store at ambient temperatures and periods of exposure to temperatures above 35°C.

Handling and Safety Information
For information on the safe handling, storage, or use of this product, refer to its Material Safety Data Sheet at http://www.epc.shell.com/. If you are a Shell Distributor, please call 1+800-332-6457 for all of your service needs. All other customers please call 1+800-237-8645 for all of your service needs.

Typical Physical Characteristics

<table>
<thead>
<tr>
<th>Shell ROTELLA® HD Tractor Fluid</th>
<th>D 1298</th>
<th>28.1</th>
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</thead>
<tbody>
<tr>
<td>Gravity, API</td>
<td>D 445</td>
<td>65.2</td>
</tr>
<tr>
<td>@ 40°C, cSt</td>
<td>D 445</td>
<td>10.2</td>
</tr>
<tr>
<td>@ 100°C, cSt</td>
<td></td>
<td></td>
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<tr>
<td>Viscosity Index</td>
<td>D 2270</td>
<td>142</td>
</tr>
<tr>
<td>Flash Point, °C (°F)</td>
<td>D 97</td>
<td>220 (420)</td>
</tr>
<tr>
<td>Pour Point, °C (°F)</td>
<td>D 97</td>
<td>-42 (-44)</td>
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These characteristics are typical of current production. While future production will conform to Shell specifications, variation in these characteristics may occur.

Protect the Environment
Do not discharge into drains, soil, or water.