These products are multifunctional tractor hydraulic/transmission fluids which perform the following functions:

- Lubricate the transmission, differential and final drive gears.
- Act as a power steering, power brake, power take-off and implement drive fluid.
- Provide a medium with the correct friction and heat transfer characteristics for proper operation of the tractor wet brakes and power take-off unit.

CITGO TRANSGARD Lo-Temp Tractor Hydraulic Fluid is specially designed to provide outstanding low temperature fluidity under the coldest conditions. It has the same performance benefits as TRANSGARD Tractor Hydraulic Fluid, but is intended for applications where a lower viscosity fluid is desired.

The following characteristics make CITGO TRANSGARD Tractor Hydraulic Fluids outstanding products for multi-functional application.

- Superior extreme pressure (EP) and antiwear performance protects tractor transmissions, axles and hydraulic pumps. The frictional characteristics are designed to minimize “chatter” while permitting the wet brakes to hold properly. This frictional balance also provides smooth engagement of the power take-off clutch.
- Special blend of base stocks helps maintain seals and gaskets.
- Balanced formulations provide excellent rust and corrosion protection as well as excellent oil oxidation stability for high-temperature service.
- Is approved by Denison Hydraulics as an HF-0 quality fluid.
**APPLICATIONS:** CITGO TRANSGARD® Tractor Hydraulic Fluid is intended for most hydraulic fluid and transmission oil applications for tractors and implements where the following are recommended:

- Agco-Allis
- Allis Chalmers PF 821XL
- Allison (ATD) C-3
- Belarus
- David Brown
- Case New Holland (CNH) MS-1204; MS-1205 (TFD II); MS-1206 (Powergard® PTF); MS-1207 (HyTran® Plus); MS-1209; MS-1210 (TCH) and B-6; (JIC-144); (JIC-145); TFD (JIC-143 & 146);
- Hi-Vis (JIC-185)
- Caterpillar TO-2
- John Deere Quatrol®; J20 A, J20 C,(1) Hy-Gard® J14 B/C, Type 303
- Duetz-Allis HTF (PF821); 821 XL
- Ford New Holland M2C134-A/B/C/D,
- M2C86-B/C (European Spec.),
- (M2C41-B) (M2C48-A/B), (M2C53-A/B) (M2C92-A)
- Hesston and Hesston Fiat AF-8T
- IMT
- International Harvester B-6 (Hy-Tran®)
- International Hough (Dresser)
- KIOTA
- KOMATSU
- KUBOTA Universal Transdraulic Fluid (UTD)
- Massey Ferguson M1110, M1127 B,
- M1129 A, M1135 (European Spec.), M1141 (Permatran® III)
- McCormick Farmall
- Minneapolis-Moline
- Mitsubishi
- New Idea
- Oliver Type 55
- Renk-Doromat 873 or 874 A/B Bus
- Transmissions (unmodified units only)
- Steiger HTF (SEMS 17001)
- Universal
- Valmet
- Volvo WB-101
- Versatile Hy-Gear (23M, 24M)
- White Farm Equipment Q1705, Q1722,
- Q1766B (UHTF), Q1802, Q1826
- Hydraulic System Mfgs: Denison
- HF-0, HF-1, HF-2, Eaton Hydraulics;
- Vickers I-2986-S, M-2950-S;
- Sauer-Sunstrand Hydraulics

(1) Meets the performance requirements of Allison C-4 as specified by John Deere.

CITGO TRANSGARD Lo-Temp Tractor Hydraulic Fluid is intended for winter operating conditions (down to -40°F), or where a hydraulic/transmission lubricant with improved low temperature properties is desired. It has been formulated to meet the John Deere J20D specification.

**TYPICAL PROPERTIES:**

<table>
<thead>
<tr>
<th>Material Code</th>
<th>TRACTOR HYDRAULIC FLUID</th>
<th>LOW-TEMP TRACTOR HYDRAULIC FLUID</th>
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<tbody>
<tr>
<td>Gravity, ASTM D 4052, °API</td>
<td>633310001</td>
<td>633311001</td>
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<tr>
<td>Density, lb/gal</td>
<td>28.4</td>
<td>31.0</td>
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<tr>
<td>Flash Point, COC, ASTM D 92, °F (°C)</td>
<td>7.4</td>
<td>7.3</td>
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<tr>
<td>Viscosity, cP at -4°F (-20°C) Max.(1)</td>
<td>450 (232)</td>
<td>401 (205)</td>
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<td>at -29°F (-35°C) Max.(1)</td>
<td>5,500</td>
<td>1,500</td>
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<tr>
<td>at -40°F (-40°C) Max.(1)</td>
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<td>ASTM D 445, cSt at 40°C</td>
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<tr>
<td>cSt at 100°C</td>
<td>57.2</td>
<td>37.3</td>
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<td>ASTM D 2161, SUS at 100°F</td>
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<td>8.3</td>
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<td>SUS at 210°F</td>
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<td>Viscosity Index, ASTM D 2270</td>
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<td>Pour Point, ASTM D 97, °F (°C)</td>
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<td>Color, ASTM D 1500</td>
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<td>Foam Test, ASTM D 892</td>
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<td>2.5</td>
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<td>Pass</td>
<td>Pass</td>
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Note: (1) ASTM D 2983 Brookfield Apparent Viscosity