

# CITGO TRANSGARD® TRACTOR HYDRAULIC FLUIDS



Date 07/15

- DESCRIPTION:** CITGO TRANSGARD Tractor Hydraulic Fluids (including CITGO TRANSGARD Lo-Temp Tractor Hydraulic Fluid) 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 and meets the John Deere J20D specification. It has the same performance benefits as TRANSGARD Tractor Hydraulic Fluid, but is intended for applications where a lower viscosity fluid is desired.
- QUALITIES:** 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 Fluids**
- For use in equipment where the following fluids are recommended:***
- |                                 |                            |
|---------------------------------|----------------------------|
| Allison C-4                     | Kubota UDT                 |
| API GL-4                        | Massey Ferguson M-1145     |
| CAT TO-2                        | John Deere J20C            |
| Denison HF-0, HF-1, HF-2        | Case New Holland: MAT 3525 |
| Eaton Vickers I-286-S, M-2950-S |                            |
- Suitable for use in:***
- |            |                   |
|------------|-------------------|
| AGCO       | Kubota            |
| Case IH    | Massey Ferguson   |
| KH Deutz   | New Holland       |
| Ford       | Volvo WB101       |
| John Deere | White, and others |
| Komatsu    |                   |

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Date 07/15 - (Continued)

### TYPICAL PROPERTIES:

## CITGO TRANSGARD® TRACTOR HYDRAULIC FLUIDS

|  | TRACTOR<br>HYDRAULIC FLUID | LOW-TEMP TRACTOR<br>HYDRAULIC FLUID |
|--|----------------------------|-------------------------------------|
| Material Code                              | 633310001                  | 633311001                           |
| Gravity, ASTM D 4052, °API                 | 31.0                       | 32.3                                |
| Density, lb/gal                            | 7.30                       | 7.20                                |
| Flash Point, COC, ASTM D 92, °F (°C)       | 450 (232)                  | 406 (208)                           |
| Viscosity, ASTM D 2983, cP at -4°F (-20°C) | 5,500                      | 1,500                               |
| at -29°F (-35°C)                           | 48,200                     |                                     |
| at -40°F (-40°C)                           | —                          | 15,300                              |
| ASTM D 445, cSt at 40°C                    | 60.3                       | 33.7                                |
| cSt at 100°C                               | 9.6                        | 7.15                                |
| Viscosity Index, ASTM D 2270               | 140                        | 183                                 |
| Pour Point, ASTM D 97, °F (°C)             | -40 (-40)                  | -54 (-48)                           |
| Color, ASTM D 1500                         | 3.0                        | 2.5                                 |
| Foam Test, ASTM D 892, Sequence I, II, III | Pass                       | Pass                                |

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