# Q8 TO-4 Fluid 60

## Description
TO-4 Transmission and Drive Train Fluid

## Application
- A lubricant intended for use in equipment where TO-4 fluids are prescribed.
- Primary use of these fluids is in power shift transmissions, final drives, hydrostatic transmissions, torque converters and hydraulics.
- The monograde TO-4 fluid can be used for transmission applications which also permit the use of heavy duty oils.

## Recommendations
- TO-4 transmission and drive train fluids may be used as lubricant in off-highway/construction and agricultural equipment if one or more of the following specifications are used to describe the required lubricant quality.

## Specifications
- Caterpillar TO-4
- Allison C-4
- ZF TE-ML 03C
- Komatsu Micro-Clutch
- Eaton /Fuller (certain manual transmissions, see operating manual)
- DANA (certain manual transmissions, see operating manual)

## Benefits
- Optimal friction characteristics even at low temperatures
- Provides good wear protection also under heavy duty conditions
- Gear protection, even under shock load conditions
- Extends drive line component life
- Protects against rust and prevents corrosion
- Provides good transmission lubrication

| Properties | Method | Unit | Typical |
|---|---|---|---|
| Viscosity Grade | | | SAE 60 |
| Absolute Density, 15 °C | D 1298 | kg/m³ | 904 |
| Kinematic Viscosity, 40 °C | D 445 | mm²/s | 292 |
| Kinematic Viscosity, 100 °C | D 445 | mm²/s | 23.6 |
| Viscosity Index | D 2270 | - | 101 |
| Brookfield Viscosity, -20 °C | D 2938 | Pa.s | - |
| Brookfield Viscosity, 5 °C | D 2938 | Pa.s | 3.5 |
| Flash Point, COC | D 92 | °C | 276 |
| Pour Point | D 97 | °C | -18 |

*The figures above are not a specification. They are typical figures obtained within production tolerances.*