

## Pro Guard TO-4

Semi-Synthetic Fluid

No. 302

SAE 30, 50, 60

### DESCRIPTION:

**Pro Guard Semi-Synthetic TO-4** Fluids are severe duty lubricants specifically blended for transmissions and final drives which require Caterpillar TO-4 fluids. This fluid is specifically designed to provide long drain intervals and reduce wear in severe duty, heavy load applications.

### FEATURES:

**Pro Guard Semi-Synthetic TO-4** is scientifically compounded from high viscosity index hydroprocessed group II base oils, premium synthetic base fluids and specially selected and tested additives. This premium product provides the following benefits:

- **Naturally high, shear stable V I's:** Obtained with a technically advanced blend of high viscosity index hydroprocessed group II base oils and premium synthetic base fluid (they do not contain V I improvers which shear down)
- **E. P. Protection:** Excellent extreme pressure protection for the gears.
- **Anti-wear Protection:** Premium anti-wear protection in powershift transmissions, clutches and brakes, and in drive train components such as final drives, bevel gears and differentials.
- **Anti-oxidation Protection:** Oxidation inhibitors protect against oil oxidation and oil thickening, and the formation of sludge and varnish
- **Rust and Corrosion Protection:** Anti-corrosion additives protect metal surfaces during operation and shut down from rust and corrosion
- **Clutch and Wet Brake Friction Retention:** Selected additives maintain smooth, positive shifting of oil clutches and control of wet brakes chatter
- **High Viscosity Index:** Greater protection at low temperatures
- **Excellent Adhesive/Cohesive Film Strength:** Greater stay-in place lubrication
- **Extended drain intervals:** when used with an oil analysis program and when following the guidelines of the OEMs.
- **Anti-foam Properties:** The fluid has very low foaming tendency to give good shift characteristics and proper lubrication.
- **Seal Protection:** Outstanding seal compatibility

### TYPICAL APPLICATIONS:

Compounded for all applications where a Caterpillar TO-4 fluid is required such as:  
Drive Trains, Clutches, Transmissions and Hydraulic Systems

- Dana Powershift (SAE 10W, 30)
- Komatsu KES 07.868.1
- Komatsu Dresser
- Tremec/TTC
- Vickers 35VQ25 (SAE 10W, 30)

**TYPICAL SPECIFICATIONS:**

<b>SAE Grade</b>	<b>30</b>	<b>50</b>	<b>60</b>
Viscosity @ 100° C, cSt:	10.9	21.5	26.0
Viscosity @ 40° C, cSt:	100	249	330
Viscosity Index:	110	113	115
Gravity, ° API:	29.4	26.7	25.0
Flash Point, COC, ° F:	475	490	492
Pour Point, ° F:	-10	+5	+10
Corrosion, 3 hrs. @ 212 ° F:	1a	1a	1a
Rust Test:	Pass	Pass	Pass
Foam Test:	Pass	Pass	Pass
Vickers Pump Test:	Pass	Pass	Pass
Calcium, % wt.	0.32	0.32	0.32
Zinc, % wt.	0.13	0.13	0.13
Ash, Sulfated, % wt.	1.3	1.3	1.3

Values shown here are typical, and may vary.

**PERFORMANCE PRODUCTS GUARANTEED**

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