



CHEVRON DRIVE TRAIN FLUID HD

SAE 10W, 30, 50, 60

PRODUCT DESCRIPTION

Chevron Drive Train Fluids HD are high performance lubricants designed for use in transmissions, final drives, and hydraulic systems requiring a fluid meeting Caterpillar TO-4 or Allison C-4 requirements.

CUSTOMER BENEFITS

Chevron Drive Train Fluids HD deliver value through:

- **Long equipment life** — Special additives help protect metal surfaces against scuffing and wear even under severe operating conditions of high temperature and high load.
- **Smooth operation** — Excellent frictional control helps prevent clutch slippage and offers quiet and efficient action of transmission and brakes while minimizing wear.
- **Minimal downtime** — Good compatibility with seals, O-rings, and packing materials maintains their good condition and keeps leakage at a minimum.
- **Long oil life** — Outstanding ability of the base stock to withstand oxidation at high operating temperatures results in maximum service life for the oil.
- **Reliable operation** — Formulated to keep metal parts clean and free of varnish and sludge deposits that could result in premature breakdown.
- **Minimizing weather and storage concerns** — Protects against rust and corrosion of highly finished precision parts when operating in humid conditions and during seasonal shutdown periods.

FEATURES

Chevron Drive Train Fluids HD are high performance lubricants designed for use in transmissions, final drives, and hydraulic systems requiring a fluid meeting Caterpillar TO-4 or Allison C-4 requirements.

They are manufactured using highly refined base oils, detergents, dispersants, oxidation and corrosion inhibitors, antiwear and extreme pressure agents, and a foam suppressant.

Chevron Drive Train Fluids HD are designed for both newly developed and older model drive train components.

They offer excellent friction retention, wear control, seal compatibility, oxidation stability, and viscosity stability.

The frictional characteristics of the fluid are retained over the life of the lubricant.

Chevron Drive Train Fluids HD are formulated to help protect against wear, even in severe service conditions and under high loads. They help protect precision parts against wear under high load conditions by controlling the formation of corrosion, varnish, and sludge.

Chevron Drive Train Fluids HD are compatible with new and traditional seal and clutch materials.

Product(s) manufactured in the USA, Colombia and El Salvador.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

A **Chevron** company product

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APPLICATIONS

Chevron Drive Train Fluids HD are recommended for use in Caterpillar transmissions, final drives, wet brakes, Allison Powershift transmissions, torque converters, and hydraulic systems requiring a fluid meeting Allison C-4 or Caterpillar TO-4 or TO-2 requirements.

Under normal ambient temperatures, **hydraulic systems will use the SAE 10W** viscosity grade. SAE 10W and 30 are recommended for mobile hydraulic systems where operating requirements are severe.

Transmissions will use the SAE 30 viscosity grade. Chevron Drive Train Fluids HD are also recommended for heavy duty off highway automatic transmissions requiring an SAE 10W, 30, 50 or 60 fluid.

Final drives will use the SAE 50 viscosity grade at normal temperatures and the SAE 60 at high ambient temperatures.

In order to meet Caterpillar specifications, Chevron Drive Train Fluid HD is not friction modified. Thus, it is not recommended for equipment made by other OEMs who require friction modified fluids in order to assure smooth and quiet brake operation. For example, many farm tractor OEMs require fluids such as Chevron 1000 THF in order to eliminate brake noise.

Chevron Drive Train Fluids HD meet:

- service requirements of **Caterpillar TO-4**
- requirements of **Allison C-4** (SAE 10W, 30)

Do not use in high pressure systems in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed.

TYPICAL TEST DATA

SAE Grade	10W	30	50	60
<i>Product Number</i>	226607	226608	226601	226610
<i>SDS/MSDS Number</i>				
<i>USA</i>	6739	6739	6739	6739
<i>Colombia</i>	33712	33704	33704	33704
<i>El Salvador</i>	—	33705	33705	—
API Gravity	29.7	27.5	25.9	25.3
Viscosity, Kinematic				
cSt at 40°C	40	92	191	305
cSt at 100°C	6.4	10.8	17.7	25.0
Viscosity, Saybolt				
SUS at 100°F	206	478	1004	1615
SUS at 210°F	48	63	91	124
Viscosity, Cold Crank, °C/Poise	-25/52	—	—	—
Viscosity Index	109	101	100	105
Flash Point, °C(°F)	225(437)	255(491)	255(491)	255(491)
Pour Point, °C(°F)	-30(-22)	-24(-11)	-15(+5)	-12(+10)

Minor variations in product typical test data are to be expected in normal manufacturing.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.