



TEXACO URSA[®] PREMIUM TDX SYNTHETIC

SAE 5W-40

CUSTOMER BENEFITS

Texaco Ursa Premium TDX Synthetic heavy duty motor oils deliver value through:

- **Easier cold weather starting** due to excellent low temperature pumpability.
- **Lower oil cost** — Low oil consumption as proven by excellent deposit control on piston crownlands. Outstanding oxidation stability contributes to long oil service life.
- **Reduced operating costs** — Excellent soot dispersancy and wear control extend engine life to overhaul and help defer the cost of investing in new equipment. Filters are kept clean longer, assuring maximum filter life.
- **Reduced inventory costs** — The wide operating temperature range allows for the use of one oil in all seasons. One oil may be used in four-stroke gasoline and all naturally aspirated or turbocharged electronically controlled low emission diesel engines. Compatible with nonsynthetic engine oils.
- **Improved profitability** — Unsurpassed protection against valve train wear maintains maximum fuel economy. Extended oil drain capacity means equipment is in service longer and generating revenue.
- **Longer engine life** — The combination of exceptional soot dispersancy and excellent low temperature pumpability will lead to less wear at startup and during all operating conditions.

FEATURES

Texaco Ursa Premium TDX Synthetic heavy duty motor oils are multipurpose 100% synthetic lubricants formulated for use in gasoline and diesel engines, torque converters, gear cases, and hydraulic systems operating in subzero arctic-type temperatures.

They are manufactured using stable synthetic base stocks. These oils utilize highly dispersed viscosity index improvers that promote stable viscosities and soot dispersancy between oil drains.

FUNCTIONS

Texaco Ursa Premium TDX Synthetic heavy duty motor oils have excellent shear stability and are designed to not shear down to a lower viscosity grade in most applications. Thus, engines are well protected during maximum drain intervals. Shear stability can be a problem with nonsynthetic SAE 5W 40 engine oils.

Texaco Ursa Premium TDX Synthetic heavy duty motor oils maintain excellent deposit control. They retard the formation of sludge, deposits, and varnish associated with low and high temperature operation, thus keeping engines clean.

These oils also provide outstanding wear, rust, and corrosion protection.

With their low viscosity, Texaco Ursa Premium TDX Synthetic heavy duty motor oils assure consistent engine starting. The improved low temperature pumpability also reduces wear. These oils maintain excellent oil circulation once the engine has started and is running.

Texaco Ursa Premium TDX Synthetic heavy duty motor oils reduce oil thickening and have excellent oxidation and thermal stability. They reduce oil consumption because of their low volatility.

APPLICATIONS

Texaco Ursa Premium TDX Synthetic heavy duty motor oils are recommended for use in diesel and four-stroke cycle gasoline engines, torque converters, gear cases, and hydraulic systems operating year-round in arctic-type climates. They utilize the latest technology to provide excellent performance with either high or low sulfur diesel fuels.

Texaco Ursa Premium TDX Synthetic heavy duty motor oils meet:

- **API Service Categories**
 - CI-4 PLUS, CI-4, CH-4, CG-4, CF-4, CF, CD¹, SH¹, SJ, SL
- **major diesel engine manufacturers' requirements**
 - Mack EO-N Premium Plus, EO-M PLUS, EO-M
 - Cummins CES 20078, 20076, 20071

TYPICAL TEST DATA

SAE Grade	5W-40
CPS Number	222156
MSDS Number	12231
API Gravity	31.6
Viscosity, Kinematic cSt at -40°C cSt at 40°C cSt at 100°C	— 96.3 15.6
Viscosity, Cold Crank, °C/Poise	-30/60
Viscosity Index	173
Flash Point, °C(°F)	230(446)
Pour Point, °C(°F)	-42(-44)
Sulfated Ash, wt %	1.6
Base Number, ASTM D 2896	13.2
Phosphorus, wt %	0.145
Zinc, wt %	0.158

Typical test data are average values only. Minor variations which do not affect product performance are to be expected in normal manufacturing.

1. Obsolete specification