



Mobiltrans™ AST

Mobil Commercial Vehicle Lube , Canada

Extra High Performance Drivetrain Lubricant

Product Description

Mobiltrans™ AST (All Season Transmission) is an extra high performance drivetrain lubricant engineered to meet or exceeds the requirements of Caterpillar's new TO-4M performance specifications for off-highway transmissions, drive trains, and hydraulic systems. This advanced technology lubricant provides clutch and brake compatibility and extended life that has not been possible with previous formulations. Mobiltrans AST incorporates a blend of semi-synthetic base oils with an advanced additive system. The product is recommended for all-season lubrication all drivetrain components in light to severe duty off-highway equipment operating in a wide range of environments.

Features and Benefits

Today's technology has vastly improved the performance capabilities of heavy-duty off-highway equipment in terms of load, speed, control, and performance through innovative drivetrain designs. These designs have increased the requirements of drivetrain fluids to deliver higher performance, increased productivity, and reduced operating costs. For heavy-duty transmissions, friction control, wear protection, thermal stability, shear stability, rust and corrosion protection, and seal compatibility are features that must be optimally balanced to provide extended gear and synchroniser life, smooth shift control, fuel economy, and high load capability over a wide range of applications. Mobiltrans AST delivers exceptional performance in today's power train components including haul truck final drives with year-round application. The key benefits include:

Features	Advantages and Potential Benefits
Excellent frictional properties	Optimum clutch friction retention and slippage control, excellent anti-chatter brake performance, and extended clutch/brake life
Excellent load carrying, anti-wear, and EP performance	Greater wear protection, extended component life, and reduced cost of operation
Outstanding protection against deposit formation	Longer seal life, extended drain, and service intervals
Maximum protection from corrosion of copper and its alloys	Protects and extends the life of synchronizers
Optimized thermal and oxidation protection	Extended transmissions and drive train life
Exceptional shear stability	Maintains effective viscosity and film strength during severe operation
Outstanding low-temperature fluidity and pumpability	Smoother shifting with quicker starts and reduced wear
All-season capability	Extended drain and service intervals with lower operating costs and higher productivity

Applications

Recommended by Imperial Oil for use in:

- Heavy-duty transmissions, drivetrains, hydraulic systems in off-highway equipment

Specifications and Approvals

Mobiltrans AST meets or exceeds the requirements of the following industry and builder specification:
Caterpillar TO-4M

Mobiltrans AST is recommended by Imperial Oil for use in applications requiring:

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Typical Properties

Mobiltrans AST	
Viscosity, ASTM D 445	
cSt @ 40°C	107
cSt @ 100°C	14.2
Viscosity Index, ASTM D 2270	134
Brookfield Viscosity , cP, ASTM D2983	45,000 @ -30°C
MRV Viscosity, cP, ASTM D4684	37,000 @ -30°C
Pour Point, °C, ASTM D 97	-39
Flash Point, °C, ASTM D 92	222
Density, kg/m ³ @ 15°C, ASTM D4052	882

Ambient Temperature Recommendations, °C

Transmissions -20C to +40C

Hydraulics -20C to +50C

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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09-2019

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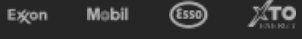
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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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