

Atom AC-9001

TRANSMISSION AND POWER TRAIN ADDITIVE

AC-9001 A high performance additive enhances the effectiveness of powershift transmission fluids significantly. This additive is specifically designed to meet requirements set by major equipment manufacturers serving the Off-Highway sector, ensuring reliable performance for demanding applications.

AC-9001 is a high-quality fluid designed for use in modern off-highway machinery. It provides excellent performance and durability in powershift transmissions, wet disc brakes hydraulic systems and final drives. This fluid enhances the friction qualities of off-highway equipment ensuring smooth operation even under tough conditions. Additionally, AC-9001 offers superior wear protection which helps to extend the life of metal components and seals.

By using **AC9001** operators can ensure that their machinery runs efficiently and reliably for a longer period.

FEATURES AND BENEFITS

- Extends fluid life via oxidative and thermal stability
- Improves protection of gears and bearings
- Maintains viscosity grade over equipment life
- Meets the requirements of the Caterpillar TO-4 specification
- Prevents blockage of lubricant passages and extends machine life
- Protects critical components
- Provides braking capacity for safe stopping within the design limits of the equipment
- Provides continuous antiwear protection
- Provides longer equipment life
- Provides superior bearing protection to reduce macro pitting and metal fatigue
- Supports seal compatibility which prevents leaks
- Suppresses wet brake noise

APPLICATION AND CREDENTIALS

Performance Criteria Met	Recommended Treat Rate of AC-9001
	8.40% by weight (7.3% by volume)
Caterpillar TO-4	M
Caterpillar TO-4M	M
ZF TE-ML 03C	A
ZF TE-ML 07F	A
Allison C-4 S	S
Dana Powershift	S
Komatsu Dresser	S
Tremec / TTC	S
Vickers 35VQ25A	M

All Atom product performance claims are only applicable when the additive package is used with define baseoil(s), Viscosity Modifier(s) and other required components to produce the applicable viscosity grade in a properly blended finished fluid

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Volume treatment rates are approximate as the actual treat rate is dependent on the density of all components in a blend
A - Approved-Formal written approval provided from a governing body such as an OEM, regulatory agency or an industry organization
L - Licensable-Licensable against an active API category
M - Meets-All required testing meets defined specification requirements; however, no formal approval provided, claim is self-certified
S - Suitable for Use (SFU) - Considered suitable for use based on laboratory testing, field testing and engineering judgment
(where there is no regulatory prohibition)

Typical Characteristics	
Characteristics	Typical Value
Appearance	Darker / Amber
Odor	Mild
Form	Liquid
Physical State	Liquid
Density @ 15°C, Kg/m3	1.032
Viscosity @ 100°C, cSt	50
Viscosity @ 40°C, cSt	1325
Flash Point, COC, °C	150
Pour Point, °C	-15
LBS Per GAL @ 15.6°C	8.6
Calcium, % weight	3.68
Zinc, % weight	1.47
Phosphorus, % weight	1.32
Sulfated Ash, mass %	14.7
Sulfur	4.7

HANDLING INFORMATION

General Handling Instructions

In general, The Lubrizol Corporation recommends, as a minimum, the use of neoprene or nitrile rubber gloves and safety glasses or chemical splash goggles. The Safety Data Sheet should be consulted for specific information and for information on health and safety when handling this product.

Fire and Explosion Hazard Data

Flash Point (method) Classification

150°C PMCC N/A

Temperature Recommendations

Unloading

Pumping Temperature

50°C 122°F

Maximum Temperature

70°C 158°F

Storage

Maximum Temperature for Long-term Storage

45°C 113°F

Blending

Maximum Base Oil Temperature for Mechanical or in-line Mixing

70°C 158°F

Equipment Recommendations

Type of Pump

Positive Displacement

Type of Transfer Line

Ball Launched, Insulated, Steam Traced Using 107°C/225°F Steam Max.

Transfer Line Size

2-3inch/5-8 cm.

Heat Source

Type

Steam 107°C/225°F Max.

Storage Tank

SAFETY INFORMATION

Holding the material in excess of this temperature may cause chemical degradation. Use steam for heating and tracing only when the material is in motion to avoid localized overheating. Cold Temperature Storage - If product has been stored below its pour point temperature it should be heated to 21°C/70°F before using.

SHIPPING INFORMATION

Tank Cars, Tank Trucks and non-returnable 55-gallon steel drums.



PROGRESS TO ZERO EMISSION

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