

Powersports Transmission Fluid

AMSOIL 100% SYNTHETIC ATV/UTV POWERTRAIN FLUID

Product Code: AUPTPK-EA



Product Description

AMSOIL 100% Synthetic ATV/UTV Powertrain Fluid replaces both Polaris Demand Drive Fluid and Polaris AGL Synthetic Gearcase Lubricant and Transmission Fluid with a single, purpose-built synthetic formula that protects high-torque gears, prevents clutch chatter, and handles the punishment that modified and heavily loaded machines dish out.

ATVs and UTVs live hard lives. Plows, winches, bumpers, doors, roofs, and cargo racks all add weight that the factory engineers didn't fully account for when designing powertrain components. Combine that extra load with aggressive trail riding, deep mud, steep grades, and sub-zero startups, and you've got a recipe for accelerated gear wear, deposit buildup, and clutch problems. The fluid your transmission and front drive rely on has to manage all of that without losing viscosity or allowing chatter.

PROTECTS HEAVILY LOADED, HIGH-TORQUE GEARS

Polaris RANGER, RZR, GENERAL, and Sportsman platforms put serious torque through compact transmissions and differentials. Accessories and aggressive riding amplify the pressure and heat these components endure. AMSOIL Synthetic ATV/UTV Powertrain Fluid uses durable synthetic base oils that resist viscosity loss from mechanical shear far better than conventional fluids. It scored a 0.39 mm wear scar in the Four-Ball Wear Test (ASTM D4172, 150 degC, 1800 rpm, 40 kg, 1 hr), demonstrating strong film strength under extreme-pressure conditions. That film keeps metal surfaces separated even when you're hauling a full bed up a steep grade or crawling through rocks at full steering lock.

PREVENTS CLUTCH CHATTER

Clutch chatter in ATV and UTV transmissions isn't just annoying. It signals friction material engagement problems that can lead to premature wear. This fluid is specifically formulated for wet-clutch and wet-brake compatibility, delivering smooth, predictable engagement across the operating temperature range. Polaris owners who have dealt with rough shifting and jerky low-speed operation on OEM fluids often notice an immediate improvement. The formulation also works in Kawasaki, Yamaha, and Argo machines that require wet-brake-compatible fluid.

KEEPS TRANSMISSIONS AND DIFFERENTIALS CLEAN

Deposits act as insulators, trapping heat inside the transmission housing and reducing the system's ability to dissipate thermal energy. AMSOIL Synthetic ATV/UTV Powertrain Fluid resists oxidation better than standard-service lubricants, preventing the varnish and sludge that choke heat transfer and clog internal passages. Cleaner components run cooler and last longer. A viscosity index of 175 means the fluid maintains consistent performance across a wide temperature range without thinning excessively at high temperatures or thickening too much when cold.

COLD-WEATHER STARTUP PROTECTION DOWN TO -58 degF

If you ride in winter or live in a northern climate, cold starts are where most powertrain wear happens. Thick, sluggish fluid can't reach

critical bearing surfaces fast enough. With a pour point of -50 degC (-58 degF) and a Brookfield viscosity of 10,288 cP at -40 degC, this fluid flows quickly at startup even in harsh winter conditions. That means protection reaches gears and bearings almost immediately, reducing dry-start wear and minimizing the energy wasted pumping cold, resistant fluid through the system. For riders who use their machines for winter chores, ice fishing access, or cold-weather trail riding, this is a measurable advantage over thicker OEM fluids.

ONE FLUID REPLACES TWO OEM PRODUCTS

Polaris machines typically require one fluid for the transmission/differential and a separate fluid for the front drive and hubs. AMSOIL Synthetic ATV/UTV Powertrain Fluid is formulated to work in both locations, simplifying your maintenance and reducing the number of products you need to keep on hand. It's a direct high-performance alternative to Polaris Demand Drive Fluid and Polaris AGL Synthetic Gearcase Lubricant and Transmission Fluid. The flexible easy-pack quart container makes filling tight powertrain cavities cleaner and faster than pouring from a traditional bottle.

APPLICATIONS

Use in Polaris RANGER, RZR, GENERAL, and Sportsman transmission/differentials, front drives, and hubs calling for Polaris Demand Drive Fluid or Polaris AGL Synthetic Gearcase Lubricant and Transmission Fluid. Also suitable for ATVs and UTVs requiring wet-brake-compatible fluid, including machines from Kawasaki, Yamaha, and Argo. Do not use in applications requiring API GL-5 fluid.

SERVICE LIFE

Follow the original equipment manufacturer's oil change recommendation. AMSOIL Synthetic ATV/UTV Powertrain Fluid is Warranty Secure, meaning it will not void your factory ATV or UTV warranty when used as directed.

Technical Specifications

Property	Value	Test Method
Kinematic Viscosity @ 100 degC, cSt	7.4	ASTM D445
Kinematic Viscosity @ 40 degC, cSt	36.6	ASTM D445
Viscosity Index	175	ASTM D2270
Flash Point, degC (degF)	230 (446)	ASTM D92
Fire Point, degC (degF)	248 (478)	ASTM D92
Pour Point, degC (degF)	-50 (-58)	ASTM D97
Four-Ball Wear Test, mm (150 degC, 1800 rpm, 40 kg, 1 hr)	0.39	ASTM D4172
Brookfield Viscosity @ -40 degC, cP	10,288	ASTM D2983

Frequently Asked Questions

Q1: What ATVs and UTVs is AMSOIL 100% Synthetic ATV/UTV Powertrain Fluid designed for?

AMSOIL 100% Synthetic ATV/UTV Powertrain Fluid (AUPTPK) is designed for use in Polaris RANGER, RZR, GENERAL, and Sportsman transmission/differentials, front drives, and hubs that call for Polaris Demand Drive Fluid or Polaris AGL Synthetic Gearcase Lubricant and Transmission Fluid. It is also suitable for ATVs and UTVs requiring wet-brake-compatible fluid, including models made by Kawasaki, Yamaha, and Argo. It should not be used in applications requiring API GL-5 fluid.

Q2: How does AMSOIL Synthetic ATV/UTV Powertrain Fluid protect gears and drivetrain components under heavy loads?

AMSOIL Synthetic ATV/UTV Powertrain Fluid uses durable synthetic base oils that naturally resist viscosity loss due to mechanical shear better than conventional oils. It forms a strong lubricating film that keeps metal components separated despite extreme pressure and heat from aggressive riding or heavy accessory loads like plows, winches, and door panels. By resisting oxidation better than standard-service lubricants, it also prevents deposit buildup that acts as an insulator, allowing transmissions, differentials, and front drives to run cooler and cleaner for maximum performance and service life.

Q3: What is the pour point of AMSOIL ATV/UTV Powertrain Fluid and what cold-weather specs does it have?

AMSOIL 100% Synthetic ATV/UTV Powertrain Fluid features a low pour point of -58 degF (-50 degC), providing fast, reliable lubricant flow at startup even in harsh winter climates. This excellent cold-flow capability delivers outstanding wear protection during cold starts while also reducing the energy wasted circulating cold, thick fluid, which helps maximize fuel efficiency.

Q4: How does AMSOIL ATV/UTV Powertrain Fluid compare to Polaris Demand Drive Fluid and Polaris AGL?

AMSOIL 100% Synthetic ATV/UTV Powertrain Fluid is a high-performance, purpose-built alternative to both Polaris Demand Drive Fluid and Polaris AGL Synthetic Gearcase Lubricant and Transmission Fluid. A key advantage is convenience -- its unique formulation allows you to use one single lubricant for both transmission/differentials and front drives, instead of needing to purchase two separate OEM products. Customer reviews consistently report noticeably smoother shifting and reduced transmission noise after switching from OEM fluids to AMSOIL.

Q5: How often should I change AMSOIL Synthetic ATV/UTV Powertrain Fluid in my Polaris RZR or RANGER?

AMSOIL recommends following the original equipment manufacturer's oil change intervals for your specific ATV or UTV model. Consult your Polaris, Kawasaki, Yamaha, or Argo owner's manual for the recommended service schedule for transmission/differential and front drive fluid changes. The product comes in a flexible easy-pack quart container designed for clean, fast installation in the tight spaces common on ATVs and UTVs.

Q6: Will AMSOIL ATV/UTV Powertrain Fluid void my Polaris warranty or cause clutch chatter?

No, AMSOIL 100% Synthetic ATV/UTV Powertrain Fluid is Warranty Secure, meaning it will not void your factory ATV or UTV warranty. It is a high-performance replacement for vehicle manufacturer-branded products and is backed by the AMSOIL Limited Warranty. The fluid is also specifically designed to prevent clutch chatter and is compatible with wet-brake systems, making it safe for the demanding powertrain environments found in modern ATVs and UTVs.

Available Product Codes

Product Code	Package Size	Unit of Measure
AUPTPK-EA	Quart Easy-Pack	Each
AUPTPK-CA	Quart Easy-Pack	Case of 12

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