



QUALITY POWER TRAIN PRODUCTS **SMART BLEND**



Products

Smart Blend Synthetic TITANIUM Universal ATF Protectant



SMART BLEND by Life Automotive Products adds NEW TITANIUM Universal ATF Protectant to our synthetic product line up. The advanced TITANIUM technology takes the guess work out of converting ATFs because it works in all Transmission types except Ford Type F and CVT applications.

Smart Blend Titanium can be used as a protectant with all transmission fluids, or Smart Blend Titanium can be used to enhance Dexron/Mercon ATF to perform like a Highly Friction Modified ATF such as: Honda, Chrysler ATF +3(7176), ATF +4(9602), Toyota Type T IV and other HFM fluids. Our new Titanium also enhances Dexron/Mercon ATF into a highly stable fluid such as Mercon V or Dexron VI ATF.

A Recent ABOT Test on ATF Supplements Shows that the Smart Blend Titanium, when added to Mercon ATF, significantly improved the oxidation stability of ATF, and when compared to a competing brand reduces acid number by 85%, reduces sludge by 49% and reduces sludge foaming tendency by 79%. The Aluminum Beaker Oxidation Tests (ABOT) is specified by Ford and Chrysler to measure oxidation stability of all the ATF's recommended for their vehicles.

#6900

10 oz.

- Prevents and instantly stops torque converter shudder
- Ensures and maintains proper shifts
- Dramatically reduces wear on internal components
- Prevents overheating, foaming and oxidation
- Extends frictional stability and fluid change intervals

SMART BLEND

SYNTHETICS

by LIFE AUTOMOTIVE PRODUCTS INC.

TITANIUM™

Universal Automatic Transmission Fluid Protectant



#6900

Smart Blend Titanium's synthetic technology has been proven with billions of trouble free road miles, plus has many unsurpassed benefits:

- Prevents and instantly stops torque converter shudder
- Ensures and maintains proper shifts
- Dramatically reduces wear on internal components
- Prevents overheating, foaming and oxidation
- Extends frictional stability and fluid change intervals

Smart Blend Titanium utilizes advanced synthetic technology accepted and used today by OEMs and the world's leading Lubricating Companies.

Smart Blend Titanium has been laboratory and field tested to exceed the latest OEM requirements.

THE TRANSMISSION PROFESSIONALS at Life Automotive Products stand behind each and every product we sell and dedicate over 100 years of combined transmission and lubricating experience to developing transmission products that work for you & your customers, day-in day-out!

Smart Blend Synthetics by Life Automotive Products Inc., is the manufacturer of a full line of synthetic additives, protectants, supplements and flush chemistries for the Transmission Industry. Smart Blend's advanced synthetic technology improves over-all vehicle performance and has been proven in millions of vehicle applications. Smart Blend synthetics are formulated to enhance performance of automatic and manual transmissions, power steering systems, differentials and transfer cases.

Innovation, Quality and Leadership in the Transmission Industry set us apart from the competition and we look forward to continuing to offer you and your customers innovative solutions that solve automotive and transmission problems.



SMART BLEND

SYNTHETICS

by

THE TRANSMISSION PROFESSIONALS

TRANS FLUSH

SMART BLEND

LIFE AUTOMOTIVE
PRODUCTS INC.[®]

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SMART BLEND

SYNTHETICS

by LIFE AUTOMOTIVE PRODUCTS INC.

TITANIUM™

Synthetic Technology

That **CRUSHES** the Competition!



TESTING PROVES

SMART BLEND

SYNTHETICS

TITANIUM™

Universal ATF Protectant

Beats The Competition In ABOT TEST

Oxidation and ABOT Testing?

Oxidation is the chemical combination of a substance with oxygen. All petroleum products are subject to oxidation. When an automatic transmission fluid oxidizes, its composition and performance degrade. One result of oxidation of petroleum products is the formation of organic acids, which can be corrosive to metals. Another result is the increase in viscosity of the oil. Other oxidation products are heavy, non-soluble polymers that settle out as sludge, varnish and gum that can impair equipment operation.

The Aluminum Beaker Oxidation Test, or ABOT, is the recommended bench test for measuring the oxidation stability of automatic transmission fluids. It measures the increase in acidity, the increase in viscosity, the formation of sludge and the presence of "sludge precursors" in the oil during and after the test. Sludge precursors are compounds in the oil, formed by oxidation, that will eventually polymerize and settle out as sludge, varnish or gum. The oil with the best resistance to oxidation, when subjected to the heat and air in the test, is the one with the lowest increases in acidity and viscosity, the smallest amount of sludge and the smallest amount of sludge precursors at the end of the test. A fluid that resists oxidation will perform and protect longer than a fluid that oxidizes more quickly.



Smart Blend Titanium has Exceptional Oxidation Stability
An ATF with Smart Blend Synthetic Titanium Universal ATF Protectant performs exceptionally well in the ABOT test, and will perform properly in a normally functioning transmission under severe conditions. Also, Smart Blend Synthetic Titanium keeps metal parts from corroding and an ATF with Smart Blend Synthetic Titanium Universal ATF Protectant will not thicken and build up sludge or varnish on metal parts allowing the transmission to continue shifting at optimum performance.

What's these test results mean for you & your customers?

Smart Blend Synthetic Titanium Universal ATF Protectant offers outstanding resistance to oxidation, which is the number one cause of transmission failure. Exceptional oxidation stability means you can count on Smart Blend Synthetic Titanium Universal ATF Protectant to outperform the competing brand in severe service conditions by reducing oxidation, corrosion, sludge and varnish build up.

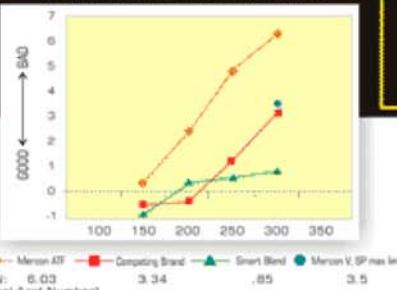
REDUCES ACID Number by 85%

REDUCES SLUDGE by 49%

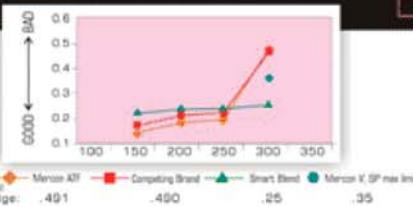
REDUCES SLUDGE FORMING Tendency by 79%

ABOT Test Prove Smart Blend Titanium Out Performs the Competition!

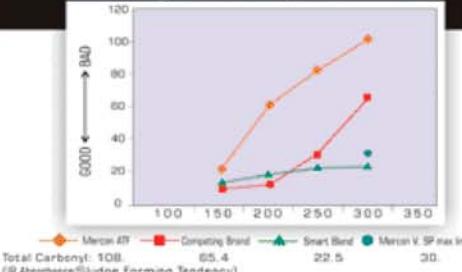
Total Acid Number Increase



Pentane Insolubles Increase



Change in Carbonyl (IR Absorbance)



ABOT Test Results on ATF Supplements

Aluminum Beaker Oxidation Tests (ABOT) shows that the Smart Blend Titanium, when added to Mercon ATF, significantly improved the oxidation stability of ATF. A competitive supplement decreased the oxidation stability of the fluid much less than Smart Blend. The ABOT is specified by Ford and Chrysler to measure oxidation stability of all the ATF's recommended for their vehicles.

The tests described in this report were run for 300 hours at 155°C, with an airflow of 5.0ml/min., with aluminum, copper and lead strips in the beaker. They were conducted by a research laboratory authorized to perform OEM testing for Ford Motor Company.

Data reported from the tests are included in the graphs below which include TAN (total acid number) increase, pentane insolubles (sludge) and carbonyl (IR Absorbance/sludge forming tendency).

Total Acid Number Increase

Smart Blend reduces acid number increase by 85%, compared to only 45% with the competing brand at the end of the 300 hour test. The Total Acid Number (TAN) is a measure of the relative amount of acidic substances in petroleum oil, or from degradation products formed during service. The increase in acid number (TAN) during an oxidation test is a measure of the relative amount of acidic substances from degradation products formed during the test.

Pentane Insolubles Increase

Smart Blend reduces sludge (Pentane Insolubles) by 49%, compared to no reduction with competing brand at the end of the ABOT test. The competing brand DOES NOT PASS Mercon V. SP max limit. In this test, pentane insolubles are solid materials, formed by oxidative degradation of the fluids. As shown in the figure labeled "ABOT Results: Pentane Insolubles Increase", both the base ATF and the base ATF plus the competitive supplement contained about 0.49% pentane insolubles at the end of the test. This is well above the maximum specified for Mercon V and Mercon SP ATF.

Change in Carbonyl (IR Absorbance)

Smart Blend reduces sludge forming tendency carbonyl (IR Absorbance) by 79% increase, compared to only 39% with competing brand at the end of the 300 hour test. The competing brand DOES NOT PASS tests for Mercon V or Mercon SP. A "carbonyl" is an organic radical characteristic of aldehydes formed by the reaction of oxygen with carbon. IR Absorbance measures the presence of compounds in the ATF that, with continued oxidation, can polymerize and settle out as sludge, varnish or gum. Their presence can be detected by infra-red spectroscopy. The ATF with the SMART BLEND supplement is the only test fluid that meets the requirements for Mercon V and Mercon SP.