



# M-V Automatic Transmission Fluid Supplement

ENHANCES DEXRON® ATF TO PERFORM LIKE A MERCON V® ATF  
USE LUBEGARD® M-V AUTOMATIC TRANSMISSION FLUID SUPPLEMENT WITH DEXRON® ATF  
FOR ALL APPLICATIONS REQUIRING MERCON V® ATF

LUBEGARD® M-V Automatic Transmission Fluid Supplement is formulated utilizing the synthetic patented OEM endorsed LUBEGARD® LXE® (liquid wax ester) Technology as found in LUBEGARD® products and a new synthetic Technology SYNERGOL™. SYNERGOL™ is a high-performance, low-phosphorus, multifunctional anti-wear material that works synergistically with existing anti-wear compounds to drastically reduce friction and improve the lubricant's long-life performance. This material is not consumed and maintains its anti-wear performance beyond normal fluid life and helps protect all of the internal transmission parts.

## Mercon V® Cycling Test Cost \$39,650

### Cycling Test Protocol

- Transmission used:** 700R-4 (1991 Camero)
- Standard Test:** 20,000 cycles or until fluid fails shift time specification
- Cycles definition:** Each cycle lasts 30 seconds, engages each gear with load applied, then comes to a complete stop
- Fluid temperature:** Maintained at 275°F

### Shift Time Comparisons

LUBEGARD® M-V Automatic Transmission Supplement  
General Motors Factory Fill Reference

Test Parameters	5,000 cycles	20,000 cycles	40,000 cycles
1-2 Shift 0.30-0.75 seconds	SHIFT	SHIFT	SHIFT
2-3 Shift 0.30-0.75 seconds	1-2 2-3 3-4	1-2 2-3 3-4	1-2 2-3 3-4
3-4 Shift Report			
LUBEGARD® M-V	0.40 0.56 0.35	0.37 0.50 0.31	0.46 0.61 0.38
GM® Reference	0.42 0.54 0.32	0.55 0.54 0.44	-----
	<b>10,000 cycles</b>	<b>30,000 cycles</b>	<b>43,000 cycles</b>
LUBEGARD® M-V	0.32 0.56 0.32	0.39 0.54 0.35	0.52 0.76 0.36
GM® Reference	0.47 0.48 0.39	0.57 0.53 0.41	-----
<b>How much did we tighten up the variability in the shift times?</b>			
<b>10-20K Variance</b>	<b>1-2</b>	<b>2-3</b>	<b>3-4</b>
LUBEGARD® M-V	.02 seconds	.02 seconds	.02 seconds
GM® Reference	.05 seconds	.04 seconds	.02 seconds

### Test Cycles vs. Simulated Miles

20,000 test cycles equals 100,000 simulated miles

LUBEGARD® with the reference oil failed at 44,300 cycles, more than twice the duration needed for approval, equaling 221,500 simulated miles

LUBEGARD® extended the fluid life and transmission life

### Individual Parts Inspection

Upon completion of the test and disassembly of the individual parts of the 700R-4 transmission, it was observed that with LUBEGARD®:

- The parts showed less wear
- Some parts had original phosphited surfaces intact
- No bluing on parts and metal surfaces and in some cases parts looked almost new
- No sludge or gumming on parts apparent
- Frictional surfaces looked almost new and unworn

### Wear Metals Comparison

- With LUBEGARD®, less copper, aluminum and iron ends up in the fluid
- With LUBEGARD®, less metal is coming off the part surfaces

**Wear Metals Analysis of Used Fluids at End of Test**

	Copper	Aluminum	Iron
LUBEGARD® M-V	81 PPM	48 PPM	177 PPM
GM® Factory Fill	201 PPM	64 PPM	199 PPM
Percent Improved	60%	25%	11%

### LUBEGARD® M-V Automatic Transmission Fluid Supplement Benefits

- Saves time, money & space by eliminating the need to stock Mercon V® ATF
- Reduces friction and wear on parts
- Extends fluid and component life
- Provides for smoother shifting
- Softens harsh Shifts
- Prevents overheating & fluid oxidation
- Prevents and eliminates converter shudder
- Keeps valves free
- Frees stuck valves
- Improves low temperature shifting
- Stabilizes the life of the fluid
- Contains absolutely NO zinc
- Will not harm yellow metals
- Ashless formulation



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