



SPECIALISED LUBRICANTS

PRODUCT NAME: LA 406 MV AUTOMATIC TRANSMISSION FLUID

ISO VISCOSITY: 10W

MAJOR RATINGS: DEXRON VI, MERCON V, MERCEDES BENZ, AUDI/VW, ZF

DESCRIPTION

LA406 Multi –Vehicle is an Ultra-high performance Automatic Transmission Fluid oil formulated from PAES-SYN™ oil with superior high temperature stability, durability and protection for a broad range of vehicle transmissions and power steering applications.

APPLICATION

LA406 improves the performance and smooth shift capabilities of automatic vehicles for passenger cars, light commercial vehicles and 4WD's (SUV's), where an SAE 10W high viscosity oil is recommended. Excellent protection for shock loading of towing and hauling operations.

FOAM CONTROL WITH WEAR PROTECTION

LA 406 MV contains anti-foam chemistry that provides a resilient oil film at low and high temperatures. Elasto-hydrodynamic lubrication (EHD-L) provided from the PAES-SYN™ oils resist oil film shear and rupture under high torque, sliding and rolling load. This characteristics retains separation between various metallurgical opposing surfaces to increase transmission life and productivity.

RUST AND CORROSION PROTECTION

The ashless chemistry of LA 406 MV provides outstanding hydrophobic properties that prevent oxidisation of ferrous & non-ferrous yellow metals, protecting against rust and corrosion.

EXTENDED OIL SERVICE-OXIDATION RESISTANT

LA 406 MV retains an inherent ability to run cooler. This inherent thermal stability provides a cleaner, cooler and oxidation resistant oil. This desirable attribute provides extended oil drain periods and long term metal protection against metal expansion in contact points.

WEAR PROTECTION

The combination of PAES-SYN™ base oils and highly advanced additive technology utilised in LA406 provides a resilient oil film to protect planetary, (ring and sun gear components), and clutches when operated under stop-start city driving, long distance highway driving and towing loads.

ANTI-SHUDDER, SMOOTH SHIFT PERFORMANCE

LA 406 MV chemistry interacts with the steel and clutch material surfaces to form a surface film that provides the desired performance of automatic transmissions, especially anti-shudder performance. The friction response for the whole engagement and driving quality in a wet clutch system as well as the lock-up clutch friction couple materials ensures a smooth engagement process with no shudder providing smooth shift in the automatic transmission irrespective of the load or speed of the vehicle.

FEATURES & OPERATIONAL BENEFITS

FEATURES	ADVANTAGES AND OPERATIONAL BENEFITS
Exceptional high temperature thermal stability and oxidation resistance	Increased transmission high temperature operating capability. Eliminates insoluble and varnish deposits to enable efficient operation and long filter life
High Viscosity Index	Retains viscosity and film thickness at high temperatures. Provides exceptional low temperature performance.
Reduced co-efficient static friction	Reduced friction and increase efficiency in sliding and rolling gear/bearing mechanisms with lower steady-state operating temperatures.
High load carrying efficiency Balanced additive chemistry	Protects metal surfaces under heavy and shock loads. Delivers exceptional performance in relation to rust and corrosion prevention, water separability, foam control and air release performance.
Yellow Metal Oxidation Resistant Anti-Oxidant Protection	Protects non-ferrous metal surfaces from corrosive elements Ensures lubricant life is protected from acid attack and viscosity increase
Demulsibility Capability	Reduces effect of water contamination to form sludge and other harmful debris
Broad spectrum use	Covers wide wear protection required for all major ATF 'stepped automatic transmission' OEM specifications

SPECIFICATIONS AND PERFORMANCE REQUIREMENTS

ALLISON: C4
 FORD: MERCON
 GM: DEXRON
 MERCEDES BENZ
 JASO: 1-A
 ZF: TE-ML 03D, 04D, 05L, 16L, 17C, 14A
 MAN: 339 Z1

See list for complete application guide.

*NOTE** LA 406 is NOT suitable for CVT, Mercedes Benz 7-speed, FORD Type-F*



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TYPICAL PROPERTIES

TEST DESCRIPTION	ASTM	TEST RESULT
Description	Visual	Red
Viscosity Grade	SAE	10W
Viscosity, cSt @ 40°C	D-445	32.7
Viscosity, cSt @ 100°C	D-445	7.00
Viscosity Index	D-2270	185
Density @ 15°C, kg/L	D-4052	0.846
Flash Point, Cleveland Open Cup,(COC), °C	D-92	225
Pour Point, °C	D-5950	-45
FZG Gear Test	IP 334	>10

Health and Safety: This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Material Safety Data Sheet (MSDS).



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PERFORMANCE CLAIMS

APPLICATION	OEM	PASSENGER CAR SPECIFICATION FOR HIGH VISCOSITY MULTI VEHICLE
North American OEM	FORD	WSS-M2C-924-A , Mercon® V , SP , LV , VI , TQ95 , M2C 919-E , M2C 202-B, BTR 5M-44, 5M-52
	GM	DEXRON VI, HN 2126 , HN 2287 , HN 2414, GM-IID, IIIG, IIIH,
	CHRYSLER	ATF+4, ATF+3
Asian OEM	HONDA	ATF Z-1
	HYUNDAI	SP-II, SP-III, Long Life ATF, JWS, 3314, JWS 3317
	KIA	SP-II, SP-III, RED-1
	JASO	1-A
	AISIN WARNER	AW-1, JWS 3309
	MAZDA	ATF-M III, ATF-MV, M-III Spec MES MN117A
	MITSUBISHI	SP-II, SP-III, J2
	NISSAN	402, MATIC-D, J, K
	SUBARU	ATF, ATF-HP
	SUZUKI	3314, 317
	TOYOTA	T, T-II, T-III, T-IV
European OEM	AUDI	G 052 162, G 052 990, G 055 025
	BMW	7045E (3 Series), BMW 5 Series, LA 2634, LT 71141
	MERCEDES BENZ	MB 236.1, 236.2, 236.3, 236.5, 236.6, 236.7, 236.9, 236.11, 236.81
	MERCEDES BENZ	MB 236.10 (NAG 1 / Shell 3403)
	PSA	AL-4
	RENAULT	DP-0
	TEXACO	N402 (JATCO), ETL-7045E (BMW 7045E), ETL-8072B (BMW 5 Series)
	VOLVO	4 Speed (P/N 1161621), 97340
	VW	G 052 162, G 052 990, G 055 025
	ZF	TE-ML 09, 11 (3/4/5 speed)
Additional	FORD	XL-12 Transfer Case



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COMMERCIAL VEHICLE SPECIFICATION FOR HIGH VISCOSITY MULTI VEHICLE

APPLICATION	OEM	PASSENGER CAR SPECIFICATION FOR HIGH VISCOSITY MULTI VEHICLE
North American OEM	Allison	C-4
	Allison	TES-389, TES-389B
	Allison	Allison TES-295
European OEM	MAN	MAN 339F, 339 Type V-1, 339 Type Z-1
	MERCEDES-BENZ	236.1, 236.2, 236.3, 236.6, 236.7, 236.9, 236.11, 236.81
	VOITH	55.6336.XX(G1363) , 55.6335.XX(G607)
	VOLVO	97340, 97341
	ZF	ZF TE-ML 03D, 04D, 05L, 16L, 17C, 14A