

## **Transmission** in action







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## Cutting edge R&D in lubricant innovation for over 60 years

Total Lubrifiants is a leading global manufacturer and marketer of lubricants. We have 41 production plants worldwide and more than 5,800 employees in 150 countries. Total Lubrifiants offers innovative, efficient and environmentally responsible products and services developed by more than 300 researchers at its R&D center. Total Lubrifiants is a partner of choice for the automotive, industrial and marine markets.

#### A leading global energy company

Total Marketing & Services develops and markets products primarily derived from crude oil, along with all the associated services. Our 31,000 employees are present in 109 countries and our product and service offerings are sold in 150 countries.

Every day, Total Marketing & Services serves more than 8 million customers in our network of over 14,000 service stations in 62 countries. As the world's fourth-largest distributor of lubricants and the leading distributor of petroleum products in Africa, Total Marketing & Services operates 50 production sites worldwide where we manufacture the lubricants, bitumen, additives, special fuels and fluids that sustain our growth.

#### **Total, Committed to Better Energy**

Total is a major energy player, that produces and markets fuels, natural gas and low-carbon electricity. Our 98,000 employees are committed to better energy that is safer, more affordable, cleaner and accessible to as many people as possible. Active in more than 130 countries, our ambition is to become the responsible energy major.

# Transmission Oil, the secret of your tranquility



## Get inside a complete range of High-tech lubricants

The driveline is an essential element of your vehicle that requires optimal lubrication to exploit its full potential. This is why our lubricants are continuously evolving over time to accompany the evolution of gearboxes and axles technologies. As a result, we offer a full range of high-tech lubricants dedicated to axles, manual and automatic transmissions.

TRAXIUM FLUIDMATIC



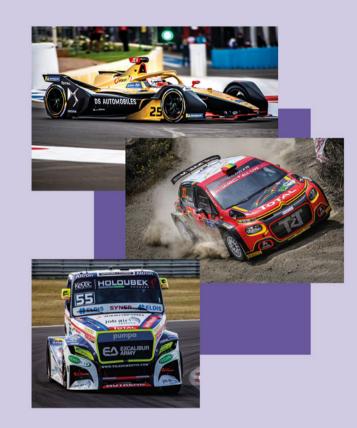
## Confidence inside give the best perfomance outside

#### The track is our lab

Total Lubrifiants is a significant player in the field of motor sports (World Rally Championship, MotoGP, Endurance and Rally Raid), supplying race teams and organizers with products and services of exceptional quality.

The expertise developed for motor racing guarantees to the drivers an optimized "protection, reliability and performance" for their engines and transmissions.

This is because racing is an unrivalled experimental laboratory for the development of tomorrow's consumer products.

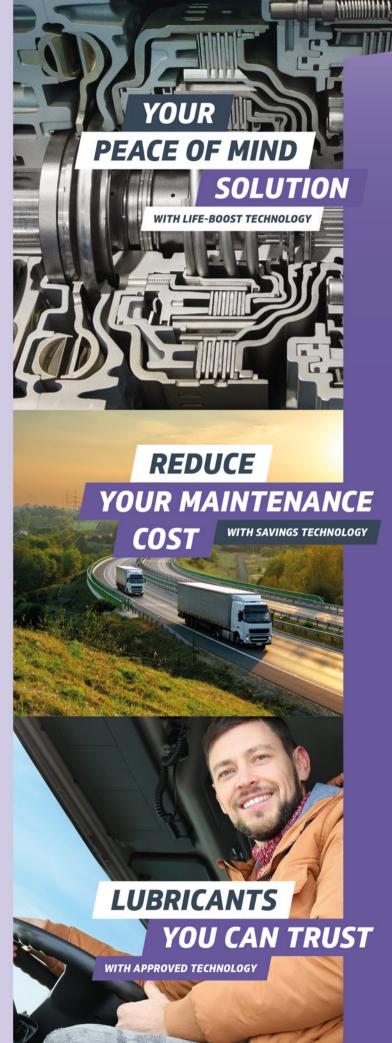


## **PERFORMANCE** & INNOVATION

#### **R&D** at its best

Transmission is an unknown and complex component of heavy duty vehicles and passenger cars, often underrated but it is an essential equipment for the availability rate and performance of the vehicles.

TOTAL invests a huge time and resources in the R&D that allows to improve considerably the performance of our range of transmission fluids to accompany vehicle and equipment manufacturers.





#### **★ EXTENDED DRAIN INTERVALS** ✓ REDUCED TCO ✓ 0EMS APPROVALS ✓ DURABILITY

Our products with Life-boost technology will maximise the durability of the components and parts of the driveline equipements of your vehicle. We guarantee the Durability of your driveline equipements because our products are approved by the Manufacturers. Our products will offer the best services as your vehicle will require drastically less maintenance by providing reduced Total Cost Ownership (TCO) with on top significant extended drain intervals. A solution which offer a peace of mind throughout the normal life time of your vehicle.



#### ★ REDUCED TCO OEMS APPROVALS DURABILITY

Our range of products with savings technology are formulated to guarantee long life performances. They will contribute over time to reduce your maintenance costs as your vehicle will run with fewer interruptions. This will guarantee a reduced Total Cost Ownership (TCO) that will make the difference.



#### 🌟 OEMS APPROVALS 🗸 DURABILITY

We develop tailor-made lubricants in our advanced R&D center in France in close collaboration with vehicle and equipment manufacturers. By working this way we fullfill their most specific technical requirements allowing our products to be approved by those manufacturers.

#### TRANSMISSION IN ACTION

# Put the transmission in action and let the rest happen



#### **Excellent viscosity stability**

Our products are formulated to remain shear stable over time providing extended life time of the fluid.

Even under very severe constraints of shear, to ensure adequate lubrication all over time.

Moreover, it provides fast and reliable lubrication at extreme cold temperatures.



#### **Fuel economy properties**

Because of their formulation and excellent low temperature performance, our fluids provide extended fuel economy benefits.



## **Exceptional friction and anti-shudder performances**

Our transmission oil technology provide consistent shift performance for the life of the transmission. It helps to maintain an excellent shifting quality over a very long time, improves overall transmission and contributes to fuel economy.

Each product has been formulated with selected friction modifiers which provide excellent friction characteristics. These improve driver's comfort with smooth and efficient shifting without shudder.



### Film-strength and anti-wear properties

Outstanding film-strength and anti-wear properties which provide a perfect lubrication all over time and protection of the transmission.

These properties give you a very good protection against wear and long transmission life.



## Excellent parts material compatibility

A wide range of lubricants which are adapted to the specific needs of each of our customers, and manufacturers technical requirements.



### Enhanced thermal stability and oxidation resistance

Our high quality synthetic base oils and superior anti-oxidant and detergent additives provide a very good oxidation control of the fluid over time even in very severe conditions.

Outstanding oxidation and thermal stability resulting in lower deposit, for a maximal drain interval capability and better protection to extend life and performance of your product.

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## **TRAXIUM**

## advanced range for manual transmissions and axles



The driveline is just as important as the engine to maximize your overall vehicle performance.

Developed in state-of-art research facilities, TOTAL's range of innovative oils is just what you need for longer protection, higher efficiency and industry-approved performance.

OXIDATION PERFORMANCE TEST CEC L-48-A-00





TRAXIUM GEAR 9 FE 75W-80













Product benefits

				STANDARD	LEVEL ADVANCED LEVEL				^	dininte
	Product name			International specifications	OEM specifications	Fuele	Durabi	Geat e	hitting Extend	ed di DEM ad
	TRAXIUM <i>Dual 9</i> FE 75W-90	v	~	API GL-4 / API GL-5 / API MT-1 / SAE J2360 / MIL-PRF 2105 E / MIL-L 2105 D	MB-APPROVAL 235.8, MAN 341 TYPE Z-2, MAN 342 TYPE S-1, SCANIA STO 1.0, VOLVO 97312 / MACK GO-J PLUS, ZF TE-ML 028 / 05A / 12L / 12N / 10F / 17B / 19C / 21A, MERITOR 076-N, IVECO RAS1, DAF	~	~	~	*	★
	TRAXIUM GEAR 9 FE 75W-90			API GL-4	MB-APPROVAL 235.11	~	~	~	*	~
	TRAXIUM GEAR 9V FE 75W-90		4	API GL-4	<b>VOLVO</b> 97315	~	*	~	*	~
	TRAXIUM GEAR 9 FE 75W-80			API GL-4	ZFTE-ML 01E / 02E / 16P, VOITH CLASS C, VOLVO 97307, MAN 341 TYPE Z5, MAN 341 TYPE VR, MB-APPROVAL 235.29, IVECO MGS2	~	~	~	*	*
	TRAXIUM GEAR 9 FE SAE 75W	v		API GL-4	PSA B71 2316, 2317	*	~	~		~
	TRAXIUM AXLE 9 FE 75W-140			API GL-5 / SAE J2360 / MIL-L 2105 D / MILPRF-2105 E	SCANIA STO 2:0A	~	~		*	~
	TRAXIUM AXLE 9 80W-90		~	API GL-5, MT-1/ MIL-L 2105 D / SAE J2360 (N°PRI GL 0660 AND 0662) / MIL-PRF 2105 E	MB-APPROVAL 235.20, MAN 342 TYPE M3, MAN 341 TYPE GA1, SCANIA STO 1:0, ZFTE-ML 05A/12L/12M/16B/17B/19B/21A, IVECO RAM1, MACK GO-J		~		*	*
	TRAXIUM DUAL 8 FE 80W-90		~	API MT1 / API GL-4 / API GL-5 / MIL-L 2105 D	MAN 341 TYPE Z2, MAN 342 TYPE M2, SCANIA STO 1:0, VOLVO 97321 / MACK GO-J, ZF TE-ML 05A / 12L / 12M / 168 / 17H / 199/21A, IVECO RAM1 • MEETS THE REQUIREMENTS OF: MAN 341 TYPE E2	~	~	•	~	*
	TRAXIUM GEAR 8 FE 75W-80		~	API GL-4	MAN 341 TYPE E-3/Z-4, ZF TE-ML 01L / 02L / 16K VOLVO 97307, DAF, IVECO MGS1	•	~	~	*	~
	TRAXIUM GEAR 8 75W-80	~		API GL-4	PSA PEUGEOT CITROEN B71 2330		~	~		~
	TRAXIUM GEAR 8 FE SAE 40		~	API MT-1	EATON PS-386 (REPLACE PS-164 REV 7), MACK TO-A PLUS, NAVISTAR MPAPS B-6816 TYPE II	~	~	~	*	~
	TRAXIUM AXLE 8 FE 75W-140		~	API GL-5 / MIL-L 2105 D	SCANIA STO 1:0	~	~			~
	TRAXIUM AXLE 8 80W-90	~		API GL-5 (LS) / MIL-L 2105 D	PSA PEUGEOT CITROEN B71 2375		~			~
	TRAXIUM AXLE 8 FE 80W-140		*	API GL-5 / API MT-1 / MIL-PRF-2105 E / MIL-L 2105 D	SCANIA STO 1:0 ZFTE-ML 05A / 12M / 16D / 21A	~	~			~
	TRAXIUM AXLE 8 85W-140		<b>v</b>	API GL-5 / SAE J2360 / MIL-L 2105 D / MIL-PRF-2105 E	SCANIA STO 1:0, IVECO RAM2	•	~			
	TRAXIUM GEAR 7 80W-90			API GL-4	MAN 341 TYPE Z2/E1, ZF TE-ML 16A / 17A / 19A		~			~
	TRAXIUM GEAR 7 80W-85		¥	API GL-4	MB-APPROVAL 235.1, ZFTE-ML 17A		~			~
	TRAXIUM GEAR 7 85W-90			API GL-4	<b>ZF</b> TE-ML 16A / 17A / 19A		~			~
	TRAXIUM AXLE 7 80W-90		~	API GL-5 / MIL-L 2105 D	<b>ZF</b> TE-ML 12E / 17B / 19B, <b>MAN</b> 342 TYPE M-2, <b>VOLVO</b> 97305, <b>IVECO</b> RAM1		~			~
	TRAXIUM AXLE 7 85W-90			API GL-5 / MIL-L 2105 D	MAN 342 TYPE M-1, ZF TE-ML 16C / 17B / 19B / 21A MB-APPROVAL 235.0		~			~
	TRAXIUM AXLE 7 85W-140		~	API GL-5 / MIL-L 2105 D	<b>ZF</b> TE-ML 05A / 12E / 16D / 21A, <b>IVECO</b> RAM2		~			•
	TRAXIUM <i>GEAR 6</i> 75W-80	v		API GL-4	SUITABLE FOR: BMW MTF LT-1 / LT-2 / LT-3 / LT-4VW, FORD W3D M2C200-C / W3D M2C200-D2, VW G 009 317, G 052 171, G 052 178, G 052 512, G 052 726 VW G 060 726 / VW G 50 / VW G0 52 527 A2, G0 70 726 A2, FIAT 9.55550-M21 / M26, VOLVO 97308		~	~		
	TRAXIUM <i>GEAR 6</i> 75W-85	~		API GL-4	SUITABLE FOR: KIA, HYUNDAI, NISSAN, MITSUBISHI, SUZUKI, DAEWOO, DAIHATSU AND ALL CAR MANUFACTURERS REQUESTING 75W-85 SAE GRADES		~	•		

OEM APPROVED MEETS THE REQUIREMENTS / SUITABLE FOR

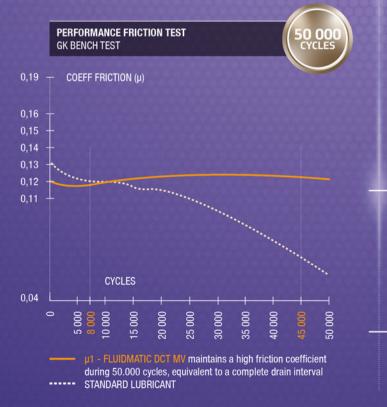
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## **FLUIDMATIC**

advanced range for automatic gearboxes



FLUIDMATIC synthetic base oils contribute to the protection of the components of your automatic gearbox and greatly enhance friction performance.















eco.					TOTAL	anti-shudde	reed driving	ted Compos	ent we
Product name			OEM specifications	Fuel e	Good Good	Enhar	Krien	ded compor	ibbio.
FLUIDMATIC XLD FE	ì	*	ZF TE-ML 04D, 14B, 16L; 208, VOITH H55,6336 XX, MAN 339 TYPE V2/22, MERCEDES-BENZ MB-AP-PROVAL 236.6, ALLISON C4 (N° 32802009), VOLVO 97341 * MEETS THE REQUIREMENTS OF: MAN 339 TYPE ZS, GM DEXRON® IIH, ZF TE-ML 02F, MERCEDES-BENZ MB 236.91, VW TL 52162, FORD MERCON®/ MERCON® V, JASO 1A, TOYOTA T-N HYUNDAJ, KIA, MITSUBISHI SP-III, HONDA Z-1, MAZDA M-III / M-V, AISIN WARNER JWS 3309 * SUITABLE FOR: ZF TE-ML 11B, NISSAN AT-MATIC D, J, K	~	~	•	*	*	
FLUIDMATIC SYN T295			ALLISON TES-295, ALLISON TES-468		~	~	*	$\Rightarrow$	
FLUIDMATIC DVI MV	~		GM DEXRON® VI * MEETS THE REQUIREMENTS OF: HONDA DW-1, AISIN WARNER JWS 3324, JWS 3309, AW-1, TOYOTA TYPE WS, JASO 1A (M315), HYUNDAI-KIA NWS-9638 SP-IV / SP-IV-RR / SPHIV * SUITABLE FOR: FORD MERCON* LV / MERCON* SP, MB 236.15, BENTLEY: PN PY11299SPA, AUDIVIOUSSWAGEN G 052 025-A2, G 1058 1052 A2, G 1058 105 402 A4, D4 (SP 55 005 A2 / G 105 216 A4) C42) F (30 50 502 A2 / G 105 216 A4) C42) F (30 50 502 A2 / G 105 216 A4) C42) F (30 50 502 A2 / G 105 216 A2) G 50 502 A2 / G 105 216 A2 (50 51 62 A2) F (30 50 502 A2 / G 105 216 A2) F (30 50 502 A2 / G 105 216 A2) F (30 50 502 A2 / G 105 216 A2) F (30 50 502 A2 / G 105 216 A2) F (30 50 502 A2 / G 105 216 A2) F (30 50 502 A2 / G 105 502 A2) F (30 50 502 A2 / G 105 502 A2) F (30 500 502 A2) F (30	*	*	•	*	~	
FLUIDMATIC LV MV			MEETS THE REQUIREMENTS OF: HONDA DW-1, AISIN WARNER JWS 3324, TOYOTA TYPE WS, JASO 1A (M315), HYUNDAJKIA NWS-9638 T-5 / SP-N/ / SP-N/-RR / SPH-N * SUITABLE FOR: GM DE/RONN, FORD MERCON™ LV/ MERCON™ SP, MB 236 12/14/41, BENTLEY PIN PY112995PA, AUDI/VOLKSWAGEN G 052 533 G 055 005 (-A A2) - 6 055 540 (A2), BMW/MIMI PN 83 22 0 142 516 / 83 22 0 397 114 / 83 22 163 514 / 83 22 2 289 720 / 83 22 2 305 397, DSI H 6-SPEED TRANSMISSIONS, CHRYSLER/DDDGE/JEEP P/N05127382AA / 68043742AA, FORD PIN XT-10-0LX, XT-6-CSP GR - DSP, EM PN 8863400 / 88863401, 12378515, HYUNDAJ/ KIA PN 040000C3056, JAGUARYLAND ROVER PNTYYSCOSO, MASERATI PN 231603, PORSCHE PN 000 043 304 00, SAAB PN 93 165 147, ZF 6 SPEED AT (6HP), ZF 8 SPEED AT (6HP), ZF 9 SPEED AT (6HP), ZF 9 SPEED AT (6HP), ZF 9 SPEED AT (6HP).	*	*	•			*
FLUIDMATIC MV	~		MEETS THE REQUIREMENTS OF: AISIN WARNER JWS 3309 / 3317, CHRYSLER/DODGE/JEEP ATF +3 / +4,  HYUNDAI/KIA SP-II/III, JASO 1A (M315), TOYOTA D-II / T / T-III / T-IV • SUITABLE FOR: FORD MERCON® /  MERCOD® V / WISS-MC2032-A1, GM DEDRON® TYPE A SUFFIX AND INICIDIENIUM, MAN 339 TYPE A  MERCOD® SEDEX (M8 263-38) 4070 11/91, ZF T=NL1 11.A118, B JUDIVOLKSWADGEN G 052 052 (A2) / G 052 162  (A1,A2) / G 052 055 / G 052 990 (A2) / G 055 025 (A2) / G US 000 162, BNW/MINI PIN 81229400272/275  / 81229407859/899, 83220024249/399, 83220040692 / 832204072413 / 83220407348, 83227542290 /  8322940765 / 3229407307, PORD P N NT C-OOX [M] / XT-S-COMS [MSN] / XT-S-OM U-O MI / YXT-8-OM W  [PREMIUM] / XT-9-OMM5 [FNR5], GM P/N 1940700 / 1940767 / 21005966 / 22717466 / 8890092 / 9986195,  ISIUZU PIN 08200-9901, JAGUAR JUN 20238 / JUM 20292 / JUM 21044, MAZDA P/N XT-9-OMM5, PORSCHE  PIN 000 043 204 41, 000 042 350 69 / 000 043 205 28, 999 917 54 70 04, 29, 88 P/N 2 000 169756, SSANIG  YONG DSH 5M-66, SUBARU P/N K0140Y0700, VCE 1273.41, VOLVO P/N 1161521 / 1161540 / 1161640		~	•	~		*
FLUIDMATIC CVT MV			MEETS THE REQUIREMENTS OF: CHRYSLER/DODGE/JEEP/MOPAR C/TF+4, DODGE/JEEP/CHRYSLER NS-2, GM/SATURIN DEX-CVT, HONDA HIMME MYTHOUT STARTING CLUTCH, 14C52 /Z-1 (CVT MODE, WITHOUT STARTING CLUTCH, ACT STARTING CLUTCH, CVT STARTING CLUTCH, CVT STARTING CLUTCH, CVT STARTING CLUTCH, CVT STARTING CVT STARTI	*			~		*
FLUIDMATIC DCT MV	•		MEETS THE REQUIREMENTS OF: AUDI/VOLKSWAGEN TL. 052 182 / TL. 052 529, FORD WSS-M2C 936-A, MERCEDES-BENZ MB 236.21 • SUITABLE FOR: AUDI/VOLKSWAGEN D0250 / D0500 / D1501, 6 055 529, 6052 182, 6052 529, BMW P/N 83 22.2 148 578 / 83 22.2 148 579 /83 22.0 440 214 / 83 22.2 145 747, CTROËN 6DCT451, FORD/GETRAG 6DCT450 / 6DCT451 / 7DCT300, MERCEDES-BENZ F-0CT350 / F-DCT500, VOLVO P/N 1161838 / 1161839, MITSUBISHI 6DCT470, PORSCHE/ZF 7DT45HL / 7DT45HLA / 7DT45FL / 7DF1/7DT70HLA / 7DT75, 7DT75A	*	~	•			*
FLUIDMATIC D3		~	MERCEDES MB-APPROVAL 236.9, VOLVO 9734, MAN 339 TYP V1/Z1/L1, VOITH H55.6335.XX, ZF TE-ML 04D/14A/118 • MEETS THE REQUIREMENTS OF: GM DEXRON® IIIG / IIIH, FORD MERCON® SUITABLE FOR: ALLISON C4		~	~	~	~	
FLUIDMATIC D2		~	ZFTE-ML 03D/04D/14A, VOITH H55.6335.XX, MAN 339 TYP V1/Z1, VOLVO 97341, MERCEDES-BENZ MB-APPROVAL 236.9 ■ MEETS THE REQUIREMENTS OF: 6M DEXRON® IID, FORD MERCON® SUITABLE FOR: ALLISON C4		~	•	~	~	
FLUIDMATIC 7S	~		MERCEDES-BENZ MB-APPROVAL 236.14		~	~	~	~	
FLUIDMATIC AT 42	•	~	MERCEDES-BENZ MB-APPROVAL 236.1, MAN 339 TYPE V1/Z1, VOITH H55.6335.XX, ZFTE-ML 04D/14A, PSA (4HP14, 4HP18, 4HP20), ALLISON C4 (N° C4-24842997 MEETS THE REQUIREMENTS OF: GM DEXRON® IIIG, FORD MERCON® - SUITABLE FOR: VOLVO 97341, BMW GROUP 24-3.0		~	•	*	*	
FLUIDMATIC ATX	•	~	MERCEDES-BENZ MB-APPROVAL 236.6, MAN 339 TYP V1/Z1, VOTTH H55.6335.XX, ZF TE-ML03D/ 04D.09/11A/14A/17C, PSA 571 2102 • MEETS THE REQUIREMENTS OF: FORD MERCON®, GM DEXRON® ID • SUITABLE FOR: ALLISON C4, BMW GROUP 23-3.0, 24-3.0		~	•	*	*	
FLUIDMATIC DIII MV	~	~	MEETS THE REQUIREMENTS OF: GM DEXRON® IIIG / IIIH, FORD MERCON® SUITABLE FOR: ZF TE-ML 14A, ALLISON C4		~	~	~		7
FLUIDMATIC DII MV			MEETS THE REQUIREMENTS OF: GM DEXRON® IID, FORD MERCON® • SUITABLE FOR: ZF TZ-ML 14A		~	~	~		7
FLUIDMATIC CC	~	~	MERCEDES-BENZ MB-APPROVAL 236.2 MEETS THE REQUIREMENTS OF: GM TYPE A SUFFIX A, MAN 339 TYPE A		~	~	~	~	
FLUIDMATIC F TYPE			MEETS THE REQUIREMENTS OF: FORD WSS M2C-33F/G SUITABLE FOR: FORD TRANSMISSIONS C3, C4		~	~	~		

OEM APPROVED MEETS THE REQUIREMENTS / SUITABLE FOR

