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Reliability in every situation



Automatic Transmission Fluids (ATF) 1/2013

Contact:



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LUBRICANTS. TECHNOLOGY. PEOPLE.



rí / 4 / A

The right high-tech automatic transmission fluid for every application!

FUCHS TITAN high-tech ATF's are the result of intensive research and development conducted by the world's leading independent lubricant specialist. Based on a dialogue with leading automobile manufacturers, tailormade to satisfy the requirements of high-tech automatic transmissions or other machinery: High-performance, heavy-duty, fuel-efficient and with maximum protection against wear. FUCHS TITAN high-tech automatic transmission fluids: Top Quality. Made in Germany.

Premium Performance Double clutch transmission fluid (DCTF)

Double clutch transmission fluid (DCTF)

Premium Performance DCTF, specially developed for modern Double Clutch Transmission with wet clutch.

- + wide performance profile offers the use in diverse Double Clutch Transmissions
- + optimum wear protection
- excellent shifting properties even under hard conditions over the whole lifetime

Specifications*:

Approvals*:

- .

FUCHS recommendations:

BMW Drivelogic 7-speed Chrysler Powershift 6-speed FORD Powershift 6-speed Mitsubishi TC-SST 6-speed Peugeot DCS 6-speed Citroen DCS 6-speed RENAULT EDC 6-speed Volvo Powershift 6-speed VW (AUDI, SEAT, SKODA) 6-speed FWD

TíTAN ATF 7134 FE

Premium Performance ATF with reduced viscosity gearbox efficiency.

suitable for Mercedes-Benz
7-speed automatic transmissions

Premium Performance ATF offering maximum performance in passenger car applications such as automatic transmissions with torque converters or wet clutches as well as power steering systems.

ATF 6000 SL

- + licensed according to DEXRON VI
- + downwards compatible to any former DEXRON-specification

Titan ATF 5005

Premium Performance ATF for automatic transmission in motor vehicles.

- outstanding base oil quality for optimal cold temperature properties and high ageing stability
- + durable, outstanding friction stability for optimal clutch- and shifting behaviour

Titan Atf 4400

Ultra High Performance ATF für die speziellen Anforderungen von Automatikgetrieben japanischer Herkunft in PKW und leichten Nutzfahrzeugen.

- durable, outstanding friction stability for optimal clutch- and shifting behaviour
- outstanding base oil quality for optimal cold temperature properties and high ageing stability
- high torque capacity exceeds the performance of many original fluids



Specifications*

Approvals*: MB-APPROVAL 236.15

FUCHS recommendations:



Specifications*:

Approvals*: DEXRON VI VOITH H55.6335.XX ZF TE-ML 09

FUCHS recommendations:



Specifications*

Approvals*:

MAN 339 TYPE V2, MAN 339 TYPE Z MB-APPROVAL 236.6, VOITH H55.6336.XX ZF TE-ML 04D, 14B, 16L, 17C

FUCHS recommendations:

DEXRON III (H), ALLISON TES 295, ALLISON TES 389, BMW 81 22 9 400 272, BMW 81 22 9 400 275, BMW 83 22 0 403 248, BMW 83 22 9 407 738, BMW 83 22 9 407 807, BMW 83 22 9 407 858, BMW 83 22 9 407 859, FORD MERCON V, MAN 339 TYP Z3, OPEL 19 40 707, VOLVO 97341, VW TL 521 62 (G 052 162), ZF TE-ML 02F, 11B, 14C



Specifications*: JASO M315 TYPE 1A

Approvals*:

FUCHS recommendations:

DEXRON III, AISIN WARNER / AW-1, BMW MINI 83 22 0 402 413 / 83 22 7 542 290, CHRYSLER ATF +37 +4, DAEWOO, DAIHATSU ALUMIX ATF MULTI, FIAT TYPO T-IV, FORD MERCON, FORD M2C924-A / M2C922-A1, GM 9986195, HONDA ATF 24, HYUNDAI SP III, SP IV, ISUZU BESCO ATF -III, ATF -III, JATCO 3100 PL085 / FWD (N402) / JF506E (K17), JWS 3309/TYP T-IV, KIA SP-IV, MAZDA ATF D-III/ATF M-3, MITSUBISHI SP-II/AIII, NISSAN MATIC COL/, SAAB 3309, SUBARU ATF OIL/ATF OIL SPECIAL/ATF HP, SUZUKI ATF 3309/3317, TOYOTA TYPE T/T-II/T-III/T-IV, TOYOTA TYP D-2WS, WK 052 990/055 025

TíTAN ATF 4134

Titan Atf 4000

Ultra High Performance ATF, specially developed to optimize shifting performance of Mercedes-Benz automatic transmissions.

- + enhanced for Mercedes-Benz 7-step-automatic transmissions (NAG2)
- distinguished through it's fuel-efficiency potential
- + improved shifting comfort

Ultra High Performance ATF for use in automatic transmissions as well as other ATF applications.

- improved low-temperature shifting compared to DEXRON II
- offers outstanding shifting comfort
- + approved for machinery and gearboxes when DEXRON III (H) is specified

Titan ATF CVT

Ultra High Performance ATF specially designed for use in many CVT-gearboxes using push-belts or transmission chains made of steel. Developed for Mercedes-Benz A- and B-class.

- prevents successfully from wear on chain/belt of modern continuously variable transmissions (CVTs)
- maintains defined friction properties over lifetime on clutches as well as in the variator system and thus enables reliable transmission of maximum torque



Ultra High Performance DEXRON III-generation-ATF for automatic transmissions as well as any other ATF-applications.

- developed for the first generation of Mercedes-Benz 7-step-automatic transmissions (NAG2)
- + applicable as well for the predecessing 5-step-automatic transmissions (NAG1) except the A- and B-class.
- + offers fuel-efficiency potential



Specifications*

Approvals*: MB-APPROVAL 236.14 SSANG YONG (MB-automatic transmissions)

FUCHS recommendations:



Specifications*:

Approvals

ALLISON C-4, ALLISON TES-389, DEXRON III (H), MAN 339 TYPE V1, MAN 339 TYPE Z1, MB-FREIGABE 236.1, VOITH H55.6335.XX, VOLVO 97341, ZF TE-ML 04D, 14A, 17C

FUCHS recommendations:

BMW 81 22 9 400 272, BMW 81 22 9 400 275, BMW 81 22 9 407 738, BMW 83 22 0 403 248, BMW 83 22 9 407 765, BMW 83 22 9 407 807, BMW 83 22 9 407 858, BMW 83 22 9 407 859, CAT TO-2, FORD MERCON, OPEL 19 40 707, OPEL 19 40 767, VW TL 521 62 (G 052 162), ZF TE-ML 09, 11B



Specifications*.

Approvals*: MB-APPROVAL 236.20

FUCHS recommendations:

BMW 83 22 0 136 376 BMW 83 22 0 429 154 NISSAN NS-2 TOYOTA TC VW TL 521 80 (G 052 180)



Specifications*.

Approvals*: MB-APPROVAL 236.12 VW TL 52533 (G 052 53

FUCHS recommendations:

DEXRON III BMW 83 22 9 407 765 BMW 83 22 9 407 807 FORD M2C195-A FORD M2C202-B FORD M2C922-A1 SSANG YONG



Super High Performance DEXRON II (D) ATF for all automatic transmissions in commercial vehicles, machinery and passenger cars according to manufacturer's documentation.

- suitable for all gearboxes and machinery designed to use DEXRON II lubricants
- + reliable protection against wear, sludge, gumming and corrosion
- offers complete reliability of automatic transmissions, power steering and hydraulic systems regardless of load over the entire life of the oil

Titan ATF 10

High Performance ATF for transmissions, power steering systems and hydraulic drives which require a GM-specification TYPE A, Suffix A fluid.

- + can be used in older machinery with TASA, MB or MAN specifications
- + if permitted by the manufacturer, can also be used in turbo- and servo-clutches as well as other hydraulic systems

Títan ZH 4300 B

Premium Performance central hydraulic fluid formulated with fully-synthetic base oils.

- + OEM approved technology
- + high oxidation stability
- + outstanding low-temperature characteristics

TíTAN ZH 5364 B

Premium Performance central hydraulic fluid formulated with fully-synthetic base oils, approved by Mercedes-Benz for level control systems in passenger cars.

- + OEM approved technology
- + high oxidation stability
- outstanding low-temperature characteristics



Specifications*

Approvals*:

MAN 339 TYPE V1, MAN 339 TYPE Z1, MB-APPROVAL 236.1, VOITH H55.6335.XX, ZF TE-ML 02F, 03D, 04D, 14A, 17C

FUCHS recommendations:

DEXRON II (D), ALLISON C-4, BMW 81 22, 9 400 272, BMW 81 22 9 400 275, BMW 81 22 9 407 738, CAT TO-2, FORD MERCON, FORD M2C185-A, FORD M2C138-CJ, FORD M2C166-H, FORD M2C9010-A, OPEL 19 40 700, OPEL 19 40 707, RENK-DOROMAT, VOLVO, VW, ZF TE-ML 09, 11A



pecifications*:

Approvals*: MB-APPROVAL 236.2

FUCHS recommendations: TASA



Specifications*

Approvals*: MAN M 3289

FUCHS recommendations:

BMW 81 22 9 407 758 BMW 82 11 1 468 041 BMW 83 29 0 429 576 FORD M2C204-A OPEL 19 40 715 OPEL 19 40 766 PSA 571 2710 VOLVO 1161529 VW TL 521 46 (G 002 000/A7/A8/G 00



Specifications*:

Approvals*: MB-APPROVAL 344.0

FUCHS recommendations:



TITAN ZH LHM PLUS

Ultra High Performance power steering and central hydraulic oil for automotive applications.

Ultra high-performance central hydraulic fluid specially designed for the use in Citroën and Peugeot vehicles.

- + OEM approved technology
- + outstanding low-temperature characteristics
- + various application possibilities
- + OEM approved technology

Super High Performance power

steering fluid approved by

Mercedes-Benz for passenger cars and commercial vehicles.

PSF

 outstanding low-temperature characteristics



Specifications*.

Approvals*: CHRYSLER MS-11655b VW TL 52519-B

FUCHS recommendations AUDI/VW G 004 000 M2 PORSCHE 000 043 206 56 SAAB 93160548 VOLVO 307 414 24



pecifications*:

Approvals*

FUCHS recommendations: ISO 7308 BMW 81 22 9 407 549 CASE FIAT 9.55597 IVECO 18-1823 MASSEY FERGUSON NH 610 A PSA 871 2710 SDFG OF1611S



Specifications*:

Approvals*: MB-APPROVAL 236.3

FUCHS recommendations:

How to find the right automatic transmission fluid:

Approvals by manufacturers

ALLISON	Application area	GM	Application area
C-4/TES-228	valid since 1989, C-4 heavy duty ATF specification, multigrade engine oil (API CF - CH-4) SAE 0W-30, SAE 10W-30, SAE 5W-40, SAE 15W-40, monograde engine oil (API CF - CH-4) SAE 10W, SAE 30 ATF (DEXRON III)	TYPE A Suffix A (A) DEXRON (B) DEXRON II (C) DEXRON II (D)	introduced in 1957; invalid introduced in 1967; invalid introduced in 1973; invalid introduced in 1981; invalid
TES-295	valid since 1999, but exclusive, severe duty and extended drain interval ATF	DEXRON II (E) DEXRON III (F)	introduced in 1991; invalid introduced in 1994; invalid
TES-353	valid since 2003, rigorous duty, extended drain interval service-fill fluid (off-high- way)	DEXRON III (G) DEXRON III (H)	introduced in 1997; invalid introduced in 2004; invalid
TES-389	valid since 2006, heavy duty ATF, TYPE DEXRON III (H)	DEXRON VI (J)	introduced in 2005; mandatory since 2007

FORD	Application area
MERCON	old FF and SF ATFs, appeared 1988, invalid since 1995
Revised MERCON	improved SF and FF ATF, better cold temp. properties, improved friction stability, appeared 1995, invalid since 2007
MERCON V	actual FF and SF Standard, increased overall performance, covers old MERCON, back serviceable, appeared 1997, valid
MERCON SP	special ATF, low viscosity level, for ZF 6-speed-transmissions, not back serviceable
MERCON LV	fuel economy ATF, lower viscosity for FE-benefits, for new Ford automatic trans- missions from 07/2007, not back serviceable
MERCON C	CVTF, for ZF-CVTs in Ford vehicles, not back serviceable

MAN	Application area
339 TYPE A	ATF TYPEe A Suffix A, invalid
339 TYPE Z1-Z4	ATF for ZF automatic transmissions, increasing drain intervals
339 TYPE V1-V2	ATF for VOITH automatic transmissions, increasing drain intervals

How to find the right automatic transmission fluid:

Approvals by manufacturers

MB-sheet	Application area	VW / AUDI	Application area
MB 235.71	Gear oils for automated manual gearboxes smart	50160 TL 52146	Service ATF DEXRON III synthetic power steering fluid
MB 235.72	Automatic Transmission Fluid Type 451 (smart fortwo) and 454 (smart roadster)	TL 52162	mineral oil-based ATFs DEXRON III-levelling; Fill-for-Life
MB 236.1	ATF (DEXRON III-level)	TL 52180 TL 52182	CVTF for Audi Multitronic gearboxes synthetic DCTF for direct shift gearboxes
MB 236.2	ATF (TASA-level)	IL 32102	synthetic DCTF for direct shift gearboxes
MB 236.3	Power steering fluids		
MB 236.5	ATF (DEXRON III-level)		
MB 236.6	ATF (DEXRON II-level)		A secold and the second and
MB 236.7	ATF (DEXRON II-level)	ZF	Application area
MB 236.8	ATF (DEXRON II E-level)	TE-ML 09	ATFs for hydraulic steering systems; all mineral oil-based DEXRON (II (D), III (F), III (G));
MB 236.9	ATF (DEXRON III-level)	TE-ML 09X	ATFs permitted without named approvals
MB 236.10	ATF (NAG1)	TE-IVIL USA	ATFs for hydraulic steering systems; special named approvals for synthetic ATFs
MB 236.11	ATF (ZF and VW-automatic transmissions)	TE-ML 11A	(mainly DEXRON II (D)-) ATFs
MB 236.12	ATF NAG2	TE-ML 11B	(mainly DEXRON III-) ATFs
MB 236.12	ATF for power distributors	TE-ML 14A	mineral oil-based ATFs, drain intervals: 30,000 km
		TE-ML 14B	mineral oil-based ATFs,
MB 236.14	ATF NAG2 for later models		drain intervals: 60,000 km
MB 236.15	FE-ATF for NAG2 FE+	TE-ML 14C	synthetic ATFs, drain intervals: 120,000 km
MB 236.20	CVT-oil for autotronic	TE-ML 14E	synthetic ATFs, drain intervals: 150,000 km
MB 236.81	ATF for passenger cars and heavy duty vehicles		
MR 226 04	ATE for Allicon gearboxes (TES 20E)		

MB 236.91 ATF for Allison-gearboxes (TES 295)

VOITH	Application area
H55.6335.3X	former G607, fully mineral or semi-synthetic ATFs for Midimat and DIWA, qualified as DEXRON II (D), III or MERCON, normal drain intervals up to 60,000 km
H55.6336.3X	former G1363, fully synthetic ATFs for DIWA transmissions qualified as DEXRON II (E), III or MERCON, extended drain intervals up to 120,000 km