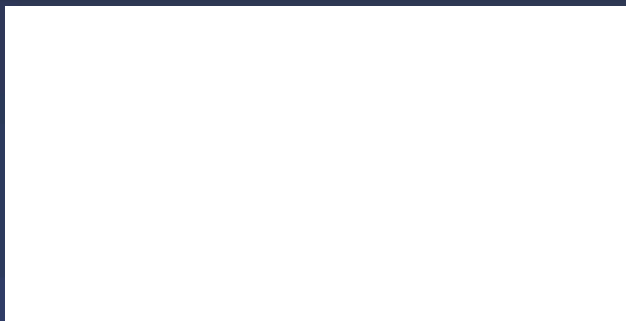


Reliability in every situation



Contact:



Automatic Transmission
Fluids (ATF) 1/2011

FUCHS EUROPE SCHMIERSTOFFE GMBH

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12/2010



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, tailor-made 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.



The information contained in this product information is based on the experience and know-how of FUCHS EUROPE SCHMIERSTOFFE GMBH in the development and manufacturing of lubricants and represents the current state-of-the-art. The performance of our products can be influenced by a series of factors, especially the specific use, the method of application, the operational environment, component pre-treatment, possible external contamination, etc. For this reason, universally valid statements about the function of our products are not possible. The information given in this product information represents general, non-binding guidelines. No warranty expressed or implied is given concerning the properties of the product or its suitability for any given application.

We therefore recommend that you consult a FUCHS EUROPE SCHMIERSTOFFE GMBH application engineer to discuss application conditions and the performance criteria of the products before the product is used. It is the responsibility of the user to test the functional suitability of the product and to use it with the corresponding care.

Our products undergo continuous improvement. We therefore retain the right to change our product program, the products, and their manufacturing processes as well as all details of our product information sheets at any time and without warning. With the publication of this product information, all previous editions cease to be valid.

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TITAN ATF 6000 SL

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

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



Specifications:*

Approvals:*

DEXRON VI
VOITH H55.6336.3X (G 607)

FUCHS recommendations:

BMW 81 22 9 400 272, BMW 81 22 9 400 275, BMW 81 22 9 407 738, BMW 83 22 0 397 114, BMW 83 22 0 403 248, BMW 83 22 0 403 249, BMW 83 22 0 432 807, BMW 83 22 9 407 858, BMW 83 22 9 407 859

TITAN ATF 5005

Premium ATF for automatic transmissions in motor vehicles, power steering systems and torque converters for extended drain intervals.

- + outstanding base oil quality for optimal cold temperature properties and high ageing stability
- + versatile applicability in on- and off-highway heavy-duty applications
- + durable friction properties for excellent wet clutch performance
- + high mechanical load capacity



Specifications:*

Approvals:*

MAN 339 TYPE V2, Z2, MB-APPROVAL 236.6, VOITH H55.6336.3X (G 1363), 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 MERCEN V, MAN 339 TYPE Z3, OPEL 19 40 707, VOLVO 97341, VW TL 521 62 (G 052 162), ZF TE-ML 02F, 11B, 14C

TITAN ATF 5000 SL

Premium ATF for automatic transmissions in motor vehicles, power steering systems and torque converters formulated with fully synthetic base oils.

- + surpasses the low-temperature demands of DEXRON II (E)
- + longest oil drain intervals in commercial vehicles
- + provides optimum and smooth shifting characteristics at all temperatures
- + first-class shifting comfort in passenger cars



Specifications:*

Approvals:*

MAN 339 TYPE V2
MAN 339 TYPE Z2
MB-APPROVAL 236.8
VOITH
H55.6336.3X (G 1363)
ZF TE-ML 04D, 09X, 14B, 16L

FUCHS recommendations:

DEXRON II (E)
ALLISON C-4
FORD MERCEN
RENK-DOROMAT

TITAN ATF 4400

Ultra high-performance ATF specifically formulated for Japanese passenger cars and light commercial vehicles.

- + 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 exceeding the performance of many original fluids



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 +3/+4, DAEWOO, DAIHATSU ALUMIX ATF MULTI, FIAT TYPO T-IV, FORD MERCEN, FORD M2C924-A/ M2C922-A1, GM 9986195, HONDA ATF Z-1, HYUNDAI SP III, ISUZU BESCO ATF-II/III, JATCO 3100 PL085/FWD (N402)/ JF506E (K17), JWS 3309/TYP T-IV, KIA SP-III, MAZDA ATF D-II/III-3, MITSUBISHI SP-II/III, NISSAN MATIC C/D/J, SAAB 3309, SUBARU ATF OIL/ SPECIAL/HP, SUZUKI ATF 3309/3317, TOYOTA TYPE T/T-II/T-III/T-IV-D-2/W5, VW G 052 990/055 025

TITAN ATF 4134

Ultra high-performance ATF, specially developed to optimise 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



Specifications:*

Approvals:*

MB-APPROVAL 236.14
SSANG YONG (MB-automatic transmissions)

FUCHS recommendations:

TITAN ATF 4000

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



Specifications:*

Approvals:*

ALLISON C-4, ALLISON TES 389, DEXRON III (H), MAN 339 TYPE V1, MAN 339 TYPE Z1, MB-APPROVAL 236.1, VOITH H55.6335.3X (G 607), 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

TITAN ATF CVT

Ultra high-performance fluid 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



Specifications:*

Approvals:*

MB-APPROVAL 236.20
FORD WSS-M2C928-A

FUCHS recommendations:

BMW 83 22 0 136 376
BMW 83 22 0 429 154
VW TL 521 80
(G 052 180)

TITAN ATF 3353

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 predecesing 5-step-automatic transmissions (NAG1) except the A- and B-class.
- + offers fuel-efficiency potential



Specifications:*

Approvals:*

MB-APPROVAL 236.12
VW TL 525 33
(G 052 533)

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

TITAN **ATF 3000**

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



Specifications:*

Approvals:*

MAN 339 TYPE V1, MAN 339 TYPE Z1, MB-APPROVAL 236.1, VOITH H55.6335.3X (G 607), 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

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



Specifications:*

Approvals:*

MB-APPROVAL 236.2

FUCHS recommendations:

TASA
MAN 339 TYPE A

Central hydraulic fluids/steering transmission oil **TITAN**

ZH 4300 B

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

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



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 S71 2710
VOLVO 1161529
VW TL 521 46 (G 002 000/A7/A8/G 004 000)

TITAN

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:*

MB-APPROVAL 344.0

FUCHS recommendations:

—

Central hydraulic fluids/steering transmission oil

TITAN **ZH 3044**

Ultra high-performance power steering and central hydraulic fluids for automotive applications.

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

TITAN **ZH LHM PLUS**

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

- + various application possibilities
- + outstanding low-temperature characteristics

TITAN **PSF**

Super high-performance power steering fluid approved by Mercedes-Benz for passenger cars and commercial vehicles.

- + OEM approved technology



Specifications:*

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Approvals:*

—

FUCHS recommendations:

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

Specifications:*

—

Approvals:*

—

FUCHS recommendations:

ISO 7308
BMW 81 22 9 407 549
CASE
FIAT 9.55597
IVECO 18-1823
MASSEY FERGUSON
NH 610 A
PSA B71 2710
SDFG OF16115

Specifications:*

—

Approvals:*

MB-APPROVAL 236.3

FUCHS recommendations:

—

How to find the right automatic transmission fluid:

Approvals by manufacturers

ALLISON

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)

TES-295

valid since 1999, but exclusive, severe duty and extended drain interval ATF

TES-353

valid since 2003, rigorous duty, extended drain interval service-fill fluid (off-highway)

TES-389

valid since 2006, heavy duty ATF, TYPE DEXRON III (H)

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 transmissions from 07/2007, not back serviceable

MERCON C

CVTF, for ZF-CVTs in Ford vehicles, not back serviceable

GM

Application area

TYPE A

Suffix A (A)

introduced in 1957; invalid

DEXRON (B)

introduced in 1967; invalid

DEXRON II (C)

introduced in 1973; invalid

DEXRON II (D)

introduced in 1981; invalid

DEXRON II (E)

introduced in 1991; invalid

DEXRON III (F)

introduced in 1994; invalid

DEXRON III (G)

introduced in 1997; invalid

DEXRON III (H)

introduced in 2004; invalid

DEXRON VI (J)

introduced in 2005; mandatory since 2007

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

MB 235.71	Gear oils for automated manual gearboxes smart
MB 235.72	Automatic Transmission Fluid Type 451 (smart fortwo) and 454 (smart roadster)
MB 236.1	ATF (DEXRON III-level)
MB 236.2	ATF (TASA-level)
MB 236.3	Power steering fluids
MB 236.5	ATF (DEXRON III-level)
MB 236.6	ATF (DEXRON II-level)
MB 236.7	ATF (DEXRON II-level)
MB 236.8	ATF (DEXRON II E-level)
MB 236.9	ATF (DEXRON III-level)
MB 236.10	ATF (NAG1)
MB 236.11	ATF (ZF and VW-automatic transmissions)
MB 236.12	ATF NAG2
MB 236.13	ATF for power distributors
MB 236.14	ATF NAG2 for later models
MB 236.15	FE-ATF for NAG2 FE+
MB 236.20	CVT-oil for autotronic
MB 236.81	ATF for passenger cars and heavy duty vehicles
MB 236.91	ATF for Allison-gearboxes (TES 295)

VW / AUDI

Application area

50160	Service ATF DEXRON III
TL 52146	synthetic power steering fluid
TL 52162	mineral oil-based ATFs DEXRON III-levelling; Fill-for-Life
TL 52180	CVTF for Audi Multitronic gearboxes
TL 52182	synthetic DCTF for direct shift gearboxes

ZF

Application area

TE-ML 09	ATFs for hydraulic steering systems; all mineral oil-based DEXRON (II (D), III (F), III (G)); ATFs permitted without named approvals
TE-ML 09X	ATFs for hydraulic steering systems; special named approvals for synthetic ATFs
TE-ML 11A	(mainly DEXRON II (D)-) ATFs
TE-ML 11B	(mainly DEXRON III-) ATFs
TE-ML 14A	mineral oil-based ATFs, drain intervals: 30,000 km
TE-ML 14B	mineral oil-based ATFs, drain intervals: 60,000 km
TE-ML 14C	synthetic ATFs, drain intervals: 120,000 km
TE-ML 14E	synthetic ATFs, drain intervals: 150,000 km

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