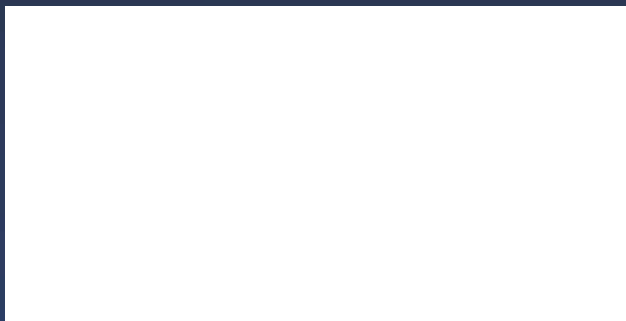


TITAN

Reliability in every situation



Contact:



**Automatic Transmission
Fluids (ATF) 2/2009**

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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.



TITAN ATF 4134 and TITAN ATF CVT: latest generation of gear oil technology for highest shifting comfort. Specially developed together with Daimler AG for Mercedes-Benz vehicles.

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 (NAG 2)
- + distinguished through its fuel-efficiency potential
- + improved shifting comfort



Specifications/approvals:*
MB-APPROVAL 236.14

FUCHS recommendations:
SSANG YONG

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

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

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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 H55.6335.3X (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 0 142 156
BMW 83 22 0 142 516
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
VW G 055 005
A1/A2/A6

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
MAN 339 TYPE 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 / TES 389
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 9 407 807
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,
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.XX (G 1363)
ZF TE-ML 04D, 09X, 14B,16L

FUCHS recommendations:

DEXRON II (E)
ALLISON C-4
FORD MERCON
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/approvals:*
JASO M315 TYPE 1A

FUCHS recommendations:

DEXRON III, AISIN WARNER, BMW MINI 83 22 0 402 413, BMW MINI 83 22 7 542 290, DAEWOOD, DAIHATSU ALUMIX, ATF MULTI, FIAT TYPO T-IV, FORD MERCON/M2C924-A, GM 9986195, HONDA ATF Z-I, HYUNDAI SP III, ISUZU BESCO, ATF-II/-III, JWS 3309/TYP T-IV, KIA SP-III, MAZDA ATF, D-III/M-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/M/S, VW G 052 990/055 025

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:*

DEXRON III (H)
ALLISON C-4
MAN 339 TYPE V1 / 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 83 22 0 403 248
BMW 81 22 9 407 738
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 / 19 40 767
ZF TE-ML 09, 11B

TITAN **ATF 3353**

Ultra high-performance DEXRON III-generation-ATF for automatic transmissions as well as any other ATF-applications.

- + developed for the latest generation of Mercedes-Benz 7-step-automatic transmissions (NAG 2)
- + applicable as well for the predecesing 5-step-automatic transmissions (NAG 1) except the A- and B-class.
- + offers fuel-efficiency potential



Specifications/approvals:*

MB-APPROVAL 236.12

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
VW TL 521 62 (G 052 162)
VW 501 60 (G 052 911)

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 / 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

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Central hydraulic fluids/steering transmission oil

TITAN **ZH 4300 B**

Ultra high-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 571 2710
VW TL 521 46
(G 002 000/A7/A8/
G 004 000)

TITAN **ZH 3044**

Super high-performance central hydraulic fluid approved by Mercedes-Benz for level control systems in passenger cars formulated with fully-synthetic base oils.

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



Specifications/ approvals:*
—

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

TITAN **ZH 5364 B**

Ultra high-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:
—

TITAN **ZH LHM PLUS**

Super high-performance mineral oil based central hydraulic fluid specially designed for the use in Citroën and Peugeot vehicles.

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



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 OF1611S

TITAN **PSF**

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

- + OEM approved technology



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-high-way)
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 Type 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

MB-sheet

Application area

MB 236.1	ATF (DEXRON III-levelling)
MB 236.2	ATF (TASA-levelling)
MB 236.3	Steering transmission oils
MB 236.5	ATF (DEXRON III-levelling)
MB 236.6	ATF (DEXRON II (D)-levelling)
MB 236.7	ATF (DEXRON II (D)-levelling)
MB 236.8	ATF (DEXRON II (E)-levelling)
MB 236.9	ATF (DEXRON III-levelling)
MB 236.10	ATF (NAG 1)
MB 236.11	ATF
MB 236.12	ATF (NAG 2)
MB 236.13	ATF for power distributors
MB 236.14	Successor ATF (NAG 2)
MB 236.20	CVTF (AUTOTRONIC)
MB 236.81	ATF

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

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 (mainly DEXRON II (D)-) ATFs
TE-ML 11A	(mainly DEXRON III-) ATFs
TE-ML 11B	mineral oil-based ATFs, drain intervals: 30,000 km
TE-ML 14A	mineral oil-based ATFs, drain intervals: 60,000 km
TE-ML 14B	synthetic ATFs, drain intervals: 120,000 km
TE-ML 14C	synthetic ATFs, drain intervals: 150,000 km
TE-ML 14E	synthetic ATFs, drain intervals: 150,000 km