



# T-HF

TRANS-HYDRAULIC™

## PRODUCT DESCRIPTION

T-HF has been specifically engineered as a multi-purpose fluid that has been tested against the most recent specifications set by tractor and transmission manufacturers to protect a variety of components to the highest degree possible. The premium formula of select base oils and a unique additive package make T-HF ideal for multiple functions within the transmission and hydraulic oil system.

## PERFORMANCE FEATURES

- Extended service intervals
- Anti-rust protection
- Enhanced oxidation stability
- Great viscosity retention, resists thinning
- Excellent shear stability, leads to better component protection
- Outstanding wear protection, meets or exceeds major OEM specifications

## APPLICATIONS

T-HF has been designed for use in multiple industries: agriculture, construction, forestry and mining. It can be used in a variety of equipment in these industries that use a common reservoir for transmissions, hydraulics, differentials, wet brakes and power steering. It is recommended and/or suitable for use in a variety of OEM equipment: John Deere, New Holland, Case IH, Massey Ferguson and others.

## TECHNICAL PROPERTIES

The values listed below are typical of current production. As variations may occur, these numbers do not constitute a specification.

PROPERTIES	TEST METHODS	T-HF
SAE Grade	—	10W-30
Kinematic Viscosity cSt @ 40°C	ASTM D445	60.1
Kinematic Viscosity cSt @ 100°C	ASTM D445	9.5
Viscosity Index	ASTM D2270	140
Pour Point, °C	ASTM D97	-45°
Brookfield Viscosity cP @ °C	ASTM D2983	4,060 @ -20°
		34,500 @ -35°
KRL Test @ 20 Hours, Viscosity cSt @ 100°C	DIN 51350/6	6.6
Sonic Shear Test @ 40mins, Viscosity cSt @ 100°C	ASTM D5261	7.6

## PERFORMANCE SPECIFICATIONS

T-HF is approved and/or recommended for use in the following:

INDUSTRY/OEM	SPECIFICATIONS
AGCO	POWER FLUID 821 XL
ALLISON	C-4/C-2
API	GL-4
CASE IH	MS-1210 & MS-1209
CNH	MAT 3525, MAT 3505
EATON VICKERS	I-286-S/M-2950-S/35VQ25
FORD	EDN-M23C134D & ESN-M2C134-A/B/C
FORD NEW HOLLAND	FNHA-2-C-201.00
JOHN DEERE	JDM J20C & J20A
KUBOTA	UDT
MASSEY FERGUSON	M-1143 & M-1141
NEW HOLLAND	NH410B
PARKER DENISON	HF-2/HF-1/HF-0
VOLVO	WB 101
WHITE FARM EQUIPMENT	Q-1826 & Q-1722
ZF TRANSMISSIONS	TE-ML-05/TE-ML-06

## PRODUCT SELECTION

Product availability can vary by location. Please contact your local retail co-op for further details.

PRODUCT SIZES	T-HF
1 L Bottle	
5 L Bottle	✓
10 L Bottle	✓
20 L Pail	✓
110 L Drum	✓
205 L Drum	✓
1000 L Tote	✓

## MATERIAL SAFETY DATA SHEETS

Product-specific material safety data sheets (MSDS) can be obtained by contacting your local retail co-op or Federated Co-operatives Limited (see contact information below) or by going online at [coopconnection.ca](http://coopconnection.ca)

## RECYCLING OF USED LUBRICANTS AND CONTAINERS

Please protect the environment when disposing of petroleum products. All products should be taken to an authorized collection facility or picked up by a qualified organization. This ensures the products will be disposed of in an environmentally sensitive manner. For additional information on used-oil recycling programs, please see the following:

- Saskatchewan – [www.usedoilrecyclingsk.com](http://www.usedoilrecyclingsk.com)
- Alberta – [www.usedoilrecyclingab.com](http://www.usedoilrecyclingab.com)
- British Columbia – [www.bcusedoil.com](http://www.bcusedoil.com)
- Manitoba – [www.usedoilrecycling.com/en/mb](http://www.usedoilrecycling.com/en/mb)

## CONTACT INFO

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# T-HF PLUS

TRANS-HYDRAULIC™

## PRODUCT DESCRIPTION

T-HF PLUS is for OEM units that call for a single fluid for the transmission and hydraulics. Needing to be multi-functional, T-HF PLUS provides superior protection in a wide range of temperatures and conditions in a wide variety of industry-leading OEM equipment.

## PERFORMANCE FEATURES

- Exceptional shear stability
- Extreme pressure protection
- Oxidative stability improves oil life
- Greater cold weather performance than conventional transmission hydraulics fluids.
- Enhanced aeration control
- Water emulsifying formula
- Fully compatible with factory fill products
- Superior wet brake and clutch defence

## APPLICATIONS

T-HF PLUS has been designed for a range of transmission types, including CVT, gear and power-shift. It is also recommended for the protection and proper function of various other component systems such as hydraulics, differentials, final drives, power steering, power take offs, wet brakes and wet clutches.

## TECHNICAL PROPERTIES

The values listed below are typical of current production. As variations may occur, these numbers do not constitute a specification.

PROPERTIES	TEST METHODS	T-HF PLUS
SAE Grade	—	10W-30
Kinematic Viscosity cSt @ 40°C	ASTM D445	54.8
Kinematic Viscosity cSt @ 100°C	ASTM D445	9.3
Viscosity Index	ASTM D2270	154
Pour Point, °C	ASTM D97	-45°
Brookfield Viscosity cP @ °C	ASTM D2983	3,520 @ -20°
		29,000 @ -35°
KRL Test @ 20 Hours, Viscosity, cSt @ 100°C	DIN 51350/6	8.6
Sonic Shear Test @ 40mins, Viscosity, cSt @ 100°C	ASTM D5261	9.2

## PERFORMANCE SPECIFICATIONS

T-HF PLUS is approved and/or recommended for use in the following:

INDUSTRY/OEM	SPECIFICATIONS
AGCO	POWER FLUID 821XL
ALLISON	C-4/C-3/C-2
API	GL-4
CASE IH	MS-1210/MS1209/MS-1207/MS-1206/MS-1205/MS-1204
CNH	MAT 3540/MAT 3505/MAT 3525
EATON VICKERS	I-286-S/M-2950-S/35VQ25
FORD	ESN-M2C134-D/ESN-M2C134-A/B/C/ESN-M2C86-B/C/ESN-MSC53-A/B/ESN-MSC43
FORD NEW HOLLAND	FHNA-2-C-201.00
JOHN DEERE	JDM J20C/JDM J20A/JDM J14B/JD303
KUBOTA	UDT
MASSEY FERGUSON	M-1145/M-1143/M-1141/M-1135/M-1129A/M-1127 A/B /M-1110
NEW HOLLAND	NH410B
PARKER DENISON	HF-2/HF-1/HF-0
VOLVO	WB 101
WHITE FARM EQUIPMENT	Q-1826/Q-1766/Q-1722/Q-1766B/Q-1705/Q-1802/TYPER 55
ZF TRANSMISSIONS	TE-ML-05/TE-ML-06/TE-ML-03E

## PRODUCT SELECTION

Product availability can vary by location. Please contact your local retail co-op for further details.

PRODUCT SIZES	T-HF PLUS
1 L Bottle	
5 L Bottle	
10 L Bottle	
20 L Pail	✓
110 L Drum	
205 L Drum	✓
1000 L Tote	✓

## MATERIAL SAFETY DATA SHEETS

Product-specific material safety data sheets (MSDS) can be obtained by contacting your local retail co-op or Federated Co-operatives Limited (see contact information below) or by going online at [coopconnection.ca](http://coopconnection.ca)

## RECYCLING OF USED LUBRICANTS AND CONTAINERS

Please protect the environment when disposing of petroleum products. All products should be taken to an authorized collection facility or picked up by a qualified organization. This ensures the products will be disposed of in an environmentally sensitive manner. For additional information on used-oil recycling programs, please see the following:

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- Manitoba – [www.usedoilrecycling.com/en/mb](http://www.usedoilrecycling.com/en/mb)

## CONTACT INFO

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# T-HF SYNTHETIC BLEND

TRANS-HYDRAULIC™

## PRODUCT DESCRIPTION

T-HF SYNTHETIC BLEND is a superior synthetic blend, low-viscosity, heavy-duty trans-hydraulic fluid designed for equipment with a common oil system. The advanced additive package used in T-HF SYNTHETIC BLEND provides all-season performance and protection required for major transmission, hydraulics, differential, power steering and wet brake components.

## PERFORMANCE FEATURES

- Extreme low temp. operation, up to -45°C
- Superior additive chemistry allows for extended service intervals
- Enhanced shear stability resists thinning to allow for greater component protection
- Friction modifiers reduce brake chatter and reduce slipping
- Excellent extreme pressure fortification
- Exceptional anti-rust formula safeguards major components

## APPLICATIONS

T-HF SYNTHETIC BLEND is recommended as an all-season fluid that meets or exceeds major OEM specifications for year round use in equipment with a common oil system that controls the transmission, hydraulics, differentials, wet brakes, final drives as well as power-steering and PTO systems.

## TECHNICAL PROPERTIES

The values listed below are typical of current production. As variations may occur, these numbers do not constitute a specification.

PROPERTIES	TEST METHODS	T-HF SYNTHETIC BLEND
SAE Grade	—	5W-30
Kinematic Viscosity cSt @ 40°C	ASTM D445	46.4
Kinematic Viscosity cSt @ 100°C	ASTM D445	9.4
Viscosity Index	ASTM D2270	192
Pour Point, °C	ASTM D97	-54°
Brookfield Viscosity cP @ °C	ASTM D2983	1,386 @ -20°
		17,354 @ -40°
KRL Test @ 20 Hours, Viscosity cSt @ 100°C	DIN 51350/6	8.0
Sonic Shear Test @ 40mins, Viscosity, cSt @ 100°C	ASTM D5261	9.0

## PERFORMANCE SPECIFICATIONS

T-HF SYNTHETIC BLEND is approved and/or recommended for use in the following:

INDUSTRY/OEM	SPECIFICATIONS
AGCO	POWER FLUID 821XL
ALLISON	C-4/C-3/C-2
API	GL-4
CASE IH	MS-1210/MS-1209
CNH	MAT 3540/MAT3526/MAT 3525/ MAT 3505
EATON VICKERS	I-286-S/M-2950-S/35VQ25
FORD	ESN-M23C134D & ESN-M2C134- A/B/C/D
FORD NEW HOLLAND	FNHA-2-C-201.00 & FNHA- 2-C-200.00
JOHN DEERE	JDM J20C/JDM J20D/JDM J20B/ JDM J20A/JDM J14B/JD303
KUBOTA	UDT
MASSEY FERGUSON	M-1145/M-1143/M-1141/M-1135/ M-1129A/M-1127A/B/M-1110
NEW HOLLAND	NH410B
PARKER DENISON	HF-2/HF-1/HF-0
VOLVO	WB 101
WHITE FARM EQUIPMENT	Q-1826/Q-1766/Q-1722/Q-1766B/ Q-1705/Q-1802/TYPE 55
ZF TRANSMISSIONS	TE-ML-06K/TE-ML-05F/TE-ML-03E

## PRODUCT SELECTION

Product availability can vary by location. Please contact your local retail co-op for further details.

PRODUCT SIZES	T-HF SYNTHETIC BLEND
1 L Bottle	
5 L Bottle	
10 L Bottle	✓
20 L Pail	✓
110 L Drum	✓
205 L Drum	✓
1000 L Tote	✓

## MATERIAL SAFETY DATA SHEETS

Product-specific material safety data sheets (MSDS) can be obtained by contacting your local retail co-op or Federated Co-operatives Limited (see contact information below) or by going online at [coopconnection.ca](http://coopconnection.ca)

## RECYCLING OF USED LUBRICANTS AND CONTAINERS

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# T-HF WINTER FORMULA

TRANS-HYDRAULIC™

## PRODUCT DESCRIPTION

T-HF WINTER FORMULA is a premium-performance, heavy-duty transmission, differential and hydraulic fluid designed for optimal cold weather performance. T-HF WINTER FORMULA is specifically designed to protect a variety of components on mobile equipment operating within the agriculture, forestry and construction industries.

T-HF WINTER FORMULA has been evaluated against the most recent specifications set by the industry's leading tractor and transmission manufacturers to ensure your equipment is protected at the highest level possible.

## PERFORMANCE FEATURES

- Oxidation inhibitors resist thermal breakdown and oil thickening
- Ambient air temperature range of between -40°C and 28°C
- Corrosion inhibitors protect vital components from rust
- Extremely shear stable, allowing it to resist excessive thinning
- Meets and/or exceeds all major equipment manufacturer's gear protection requirements, including those intended for severe cold weather operation

## APPLICATIONS

T-HF WINTER FORMULA is recommended for equipment outfitted with a common oil reservoir that operates the hydraulics, transmission, differential, final drive, wet brake, power steering and power take-off systems.

## TECHNICAL PROPERTIES

The values listed below are typical of current production. As variations may occur, these numbers do not constitute a specification.

PROPERTIES	TEST METHODS	T-HF WINTER FORMULA
SAE	—	5W-20
Kinematic Viscosity cSt @ 40°C	ASTM D445	35.2
Kinematic Viscosity cSt @ 100°C	ASTM D445	7.3
Viscosity Index	ASTM D2270	179
Pour Point, °C	ASTM D97	-60°
Brookfield Viscosity cP @ °C	ASTM D2983	1,420 @ -20°
		16,418 @ -40°
Sonic Shear Test @ 40 min, Viscosity @ 100°C, cSt	ASTM D5261	6.8
KRL Test @ 20 Hours, Viscosity @ 100°C, cSt	DIN 51350/6	6.8

## PERFORMANCE SPECIFICATIONS

T-HF WINTER FORMULA is approved and/or recommended for use in the following:

INDUSTRY/OEM	SPECIFICATIONS
AGCO	POWER FLUID 821XL
ALLISON	C-4/C-3/C-2
CNH	MAT 3525/3505
CASE IH	MS-1210/MS-1209/MS-1207/ MS-1206/MS-1205/MS-1204
FORD	ESN-M2C134-D/ESN-M2C134- A/B/C
FORD NEW HOLLAND	FNHA-2-C-201.00
JOHN DEERE	JDM J20D
KUBOTA	UDT
MASSEY FERGUSON	M-1143/M-1141
PARKER DENISON	HF-2/HF-1/HF-0
WHITE FARM EQUIPMENT	Q-1826/Q-1722
ZF TRANSMISSIONS	TE-ML-03E/TE-ML-05F
OTHER MANUFACTURERS	BELARUS/DAVID BROWN/ EATON HYDRAULICS/IMT/ INTERNATIONAL HOUGH/KIOTO/ KOMATSU/DRESSER/LANDINI/ LEYLAND/McCORMICK FARMALL/ MITSUBISHI/SUNSTRAND HYDRAULICS/UNIVERSAL/ VALMET/YANMAR

## PRODUCT SELECTION

Product availability can vary by location. Please contact your local retail co-op for further details.

Product Sizes	T-HF WINTER FORMULA
1 L Bottle	
5 L Bottle	
10 L Bottle	
20 L Pail	✓
110 L Drum	
205 L Drum	✓
1000 L Tote	

## MATERIAL SAFETY DATA SHEETS

Product-specific material safety data sheets (MSDS) can be obtained by contacting your local retail co-op or Federated Co-operatives Limited (see contact information below) or by going online at [coopconnection.ca](http://coopconnection.ca)

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