



CASE IH HY-TRAN[®] ULTRA (MS1209)

HYDRAULIC/TRANSMISSION FLUIDS

FOR CASE, INTERNATIONAL HARVESTER & CASE IH EQUIPMENT

Case IH Hy-Tran Ultra will absorb at least 1% water and still remain stable as demonstrated by the Case MT-805 Water Tolerance Test. Case IH Engineering has determined that it is essential to have moisture (primarily from condensation in service) absorbed without causing additive or water separation. Free water can promote rusting and can accumulate in low spots and freeze, resulting in restricted flow and pump cavitation. Additive separation could lead to loss of performance and filter plugging.

The anti-wear additive system in **Hy-Tran Ultra provides excellent load carrying ability**. This is your assurance that Hy-Tran Ultra provides maximum protection to gears and bearings in transmissions and final drives. In addition, a sulfur component in the zinc additive, used in competitive fluids, could promote corrosion in the presence of moisture.

Hy-Tran Ultra conditions seals (controlled swell - max 5%, no shrinkage, no hardness change). Most other tractor fluids cause seals to deteriorate by shrinking, softening or hardening the seal elastomer. The quality assurance measures exercised by Viscosity Oil and Case Engineering are much tighter than standard industry practices. Each batch of Hy-Tran Ultra is thoroughly tested at least three times between the refinery blending plant and shipment to the dealers. In addition, we periodically test packaged samples from dealer inventory.

Hy-Tran Ultra is recommended for off-highway application calling for Caterpillar TO-2 DR or Allison C-3 fluids.

TYPICAL PROPERTIES

Viscosity: cSt, @ 40°C	40
cSt, @ 100°C	6.3
SUS @ 100°F	208
SUS @ 210°F	47
Brookfield, cP @ -20°C	4200
Viscosity Index	103
Pour Point, °C (°F)	-37 (-35)
Aniline Point, °C (°F)	104 (220)
Flash Point, °C (°F)	205 (400)
Specific Gravity @ 60°F	0.89
Zinc, wt. %	Nil
Water Tolerance MT-805	Clear, 7 days
Filterability, Case MT-807	Pass
Foam, mL @ 200°F	10/0
mL @ 75°F	10/0
Oxidation/Corrosion MT-804	Pass
Shear Stability (ASTM D-5621)	1
% Viscosity Loss	
Copper Corrosion ASTM D-130	1A

Lubricants

LOW TEMPERATURE HY-TRAN[®] ULTRA (MS1209)

HYDRAULIC/TRANSMISSION FLUIDS

Low Temp Hy-Tran Ultra is an all-weather fluid and does not have to be drained in summer. To obtain desired results, systems should be drained and flushed before using low temp Hy-Tran Ultra. The new product utilizes special base oils to provide improved performance below -20°F.

Part No.	Size	Lbs./ Cont.	Pkg. Qty.
141941A2	55 Gal.	438	1

Low Temp Hy-Tran Ultra is a unique all-weather fluid designed for use in an ambient temperature range of -40°C (-40°F) to +50°C (+120°F). It is blended to provide the stable viscosity essential to maintaining optimum machine performance and long life.

Specifically designed to provide excellent water tolerance and filtration efficiency.

Low Temp Hy-Tran Ultra provides superior wear protection for hydraulic components, drive train gears, and other transmission parts. Controlled frictional characteristics provide safe, smooth operation of wet brakes and clutches.

Non-zinc anti-wear additives make Low Temp Hy-Tran Ultra thermally and hydrolytically stable and prevent the creation of corrosive by-products that can harm non-ferrous metal parts. Special additives keep the system free of deposits and corrosion to assure satisfactory operation of hydraulic components.

Meets the frictional requirements of Caterpillar TO-2 and Allison C-3.

Case IH Low Temp Hy-Tran Ultra MS1209 meets all performance requirements of the former Case MS1206, MS1210, and International Harvester B-6 specifications.

Low Temp Hy-Tran Ultra may be used in all applications where Case PTF, TCH and International Harvester Low Temp Hy-Tran fluids were formerly recommended.

Thoroughly tested by Case Engineering, Low Temp Hy-Tran Ultra has been approved for Case, International Harvester and Case IH equipment.

Low Temp Hy-Tran Ultra is an all-weather fluid and does not have to be drained in the summer. To obtain desired results, systems should be completely drained and flushed before using Low Temp Hy-Tran Ultra.

Consult Operator's Manual for proper application and replacement interval.

TYPICAL PROPERTIES

Viscosity: cSt, @ 40°C	33.7
cSt, @ 100°C	6.6
Brookfield, cP @ -20°C	1100
cP @ -40°C	5800
Cold Crank, cP @ -20°C	800
cP @ -40°C	1450
Viscosity Index	160
Pour Point, °C	-45
Flash Point, °C	200
Specific Gravity @ 15.5°C	0.8690
API Gravity @ 60°F	31.3
Zinc, wt. %	Nil
Water Tolerance (MT-805)	Clear, 7 days
Filterability, Case MT-807	Pass
Foam, mL @ 200°F	10/0
mL @ 75°F	10/0
Oxidation/Corrosion (MT 804)	Pass (Superior)
Shear Stability (ASTM D-5621)	3
% Viscosity Loss	
Copper Corrosion ASTM D-130	1A

CASE HYDRAULIC EXCAVATOR FLUID (MS1230)

HYDRAULIC/TRANSMISSION FLUIDS



Part No.	Container Size	Pkg. Qty.
B17639	🍁 5 Gal./18.93L	1
S118631	🍁 55 Gal./208.19L	1

🍁 - Available in Canada

Hydraulic Excavator Fluid is specifically formulated for use with high pressure systems in Case, Poclain and other excavators. It may also be used for low pressure systems in Case, Drott and other excavators requiring TCH or similar fluids.

Uniquely blended to provide the stable viscosity essential to maintaining optimum machine performance and long life. Case Hydraulic Excavator Fluid can be used year round without need for seasonal changes.

Special additives protect hydraulic components from wear, corrosion and loss of efficiency while minimizing aeration, cavitation, deposits and foaming.

Available in two grades - regular and low temp grade. Both grades are recommended for year round use. However, the low temp grade should be used when winter ambient temperatures are typically below -18°C (0°F).

Consult Operator's Manual for proper application and replacement interval.

TYPICAL PROPERTIES

	Temp	
	Regular	Low
Viscosity: cSt, @ 40°C	47	45
cSt, @ 100°C	8.8	8.9
SUS @ 100°F	240	228
SUS @ 210°F	56	56
cP -40°C (ASTM D-2983)	45,000	12,000
Cold Crank, cP @ -20°C	2000	1000
Viscosity Index	160	180
Pour Point, °C (°F)	-40 (-40)	-42 (-44)
Flash Point, °C (°F)	186 (367)	196 (385)
API Gravity	29.7	33.4
Shear Stability (ASTM D-2603)	3 max	3 max
% Viscosity Loss		

Lubricants

CASE AW HYDRAULIC FLUID (MS1216)

FOR NEW 9000 SERIES EXCAVATORS

Case AW Hydraulic Fluid is a high performance anti-wear oil approved by Case Engineering for use in Case 9000 Series Excavators. It is designed for use in applications where ambient temperatures range from +10°F to +90°F and where anti-wear hydraulic oil is required.

Case AW Fluid resists viscosity and thermal break-down and has ultra-pure filtration.

Case MS 1216 AW Hydraulic Fluid ISO Viscosity Grade 46 may be used in any application calling for an AW hydraulic fluid grade 46.



Part No.	Container Size	Size
116799A1	5 Gal./18.93L	1
116800A1	55 Gal./208.19L	1

🍁 - Available in Canada

TRANS-XHD FLUID

Case Trans-XHD is a petroleum-based fluid approved for use in the optional powershift transmission in the L-Series Backhoes and the C-Series Wheel Loaders.

Power shuttle transmissions are factory-tuned to provide optimal performance using Case Trans-XHD.



Part No.	Container Size	Size
282371A1	1 Qt./.95L	12
310233A1	2.5 Gal./9.46L	2
362649A1	30 Gal./113.56L	1

🍁 - Available in Canada

CASE TCH FLUID (MS1210)

HYDRAULIC/TRANSMISSION FLUIDS



FOR CONSTRUCTION AND INDUSTRIAL EQUIPMENT

Part No.	Size	Pkg. Qty.
139030A1	☁ 1 Gal./3.79L	4
B53977	☁ 5 Gal./18.93L	1

☁ - Available in Canada

TCH Fluid is recommended for use in Case Crawlers and other construction and industrial equipment where all-weather or C-3 fluids are required.

TCH Fluid minimizes wear of hydraulic components, converters, drive train gears and other transmission parts. TCH contains special additives to protect against foaming, corrosion, deposit formation and moisture. Controlled frictional characteristics assure proper, smooth operation of wet clutches and minimizes clutch slippage.

TCH Fluid meets the requirements of Detroit Diesel Allison Type C-3 fluid.

TCH Fluid is a unique all-temperature product that eliminates the need for changing fluids in low temperatures. Shear stable viscosity provides consistent year-round performance.

Laboratory and field tested, TCH Fluid provides satisfactory performance in Case construction and industrial equipment.

Compare before you buy. Only Case TCH Fluid has been tested and approved for use by Case Engineering.

Consult Operator's Manual for proper application and replacement interval.

TYPICAL PROPERTIES

Viscosity: cSt, @ 40°C	40
cSt, @ 100°C	6.3
SUS @ 100°F	209
SUS @ 210°F	49
Cold Crank, cP @ -25°C	3500
Viscosity Index	125
Pour Point, °C (°F)	-46 (-50)
Flash Point, °C (°F)	182 (360)
API Gravity	29.3
Zinc, wt. %	0.06
Shear Stability (ASTM D-2603) % Viscosity Loss	Less than 10


Lubricants

CASE TRANSAXLE FLUID (MS1317)

HYDRAULIC/TRANSMISSION FLUIDS



FOR WET BRAKE TRANSAXLES

Part No.	Size	Pkg. Qty.
B17632 	5 Gal./18.93L	1

 - Available in Canada

Transaxle Fluid is a special drive train lubricant providing smooth, quiet operation in Case Loader/Backhoe models 480E, 480F, 580 Super E and 580K transaxles (prior to P.I.N. JJG0020000), 680L and 780D rear axles which utilized oil immersed brake systems.

Excellent low temperature characteristics extend the low temperature operating range from +10°F for standard products to -15°F when using Case Transaxle Fluid.

Specifically formulated to minimize deposits and corrosion of the gear case and components. Protects gears from wear and significantly extends brake and gear life.

Consult Operator's Manual for proper application and replacement interval.

TYPICAL PROPERTIES

Viscosity: cSt, @ 40°C	265
cSt, @ 100°C	27.2
SUS @ 100°F	1463
SUS @ 210°F	133
Brookfield Viscosity cP -26°C	140,000
Viscosity Index	128
Pour Point, °C (°F)	Below -30 (-22)
Flash Point, °C (°F)	176 (350)
API Gravity	29.3
Density @ 15°C	0.891
Gear Wear (Case Method)	Pass
Brake Chatter (Case Method)	Pass
Shear Stability (ASTM D-2603)	Less than 5
% Viscosity Loss	

CASE HTO

HYDRAULIC/TRANSMISSION FLUIDS



HYDROSTATIC TRANSMISSION OIL ADDITIVE

Part No.	Container Size	Pkg. Qty.
B17508	1 Qt./.95L	12

☁ - Available in Canada

Case HTO oil additive is designed exclusively to provide for proper life of the hydrostatic components. Directions for mixing HTO and Engine Oil (1818, 1825, 1835, 1835B, 1835C, 1840 and 1845C - after P.I.N. JAF0067438) are listed on the container label. This mixture must be added each time replacement or additional oil is needed.

Case HTO is approved for use in 1830, 1845 and 1845B Uni-Loader Hydrostatic Transmissions only and is required to be used in 1818, 1825, 1835, 1835B, 1835C, 1840 and 1845C (after P.I.N. JAF0067438) Uni-Loader Hydraulic and Hydrostatic Transmission Systems.

CASE HTO PREMIX

Part No.	Container Size	Pkg. Qty.
298053A1	1 Gal./3.79L	4

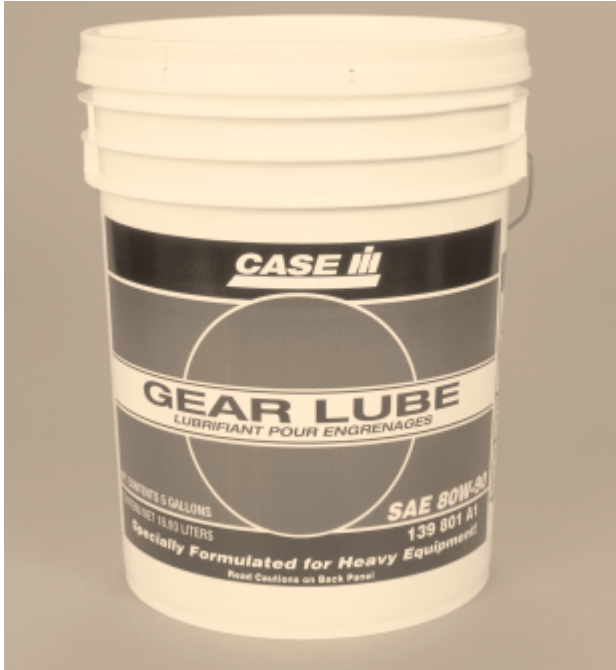
☁ - Available in Canada

Case HTO Premix petroleum oil (contains HTO additive) is specially formulated for heavy equipment. HTO Premix is SAE10W30 Engine Oil with extra anti-wear additive. For service fill in hydrostatic transmissions in Uni-Loader Skid steer models 1818, 1825, 1835B, 1835C, 1838, 1840 and 1845C. Does not require addition of HTO additive.

Lubricants

CASE IH 135H EP GEAR LUBRICANT (MS1316)

SPECIALTY FLUIDS/LUBRICANTS



135H EP Gear Lubricant SAE 80W-90 is the recommended service fill for certain 9200 Series Tractor axles. This product can also be used for 9100 Series axles and for Steiger Tractor axles.

135H EP Gear Lubricant SAE 85W-140 may be used where SAE 90 or SAE 140 gear oils are recommended. It exceeds the requirements of API GL-5 and MIL-L-2105D. SAE 80W-90 is available in Canada only.

TYPICAL PROPERTIES

	80W-90	85W-140
Viscosity: cSt, @ 40°C	138	378
cSt, @ 100°C	15	27
SUS @ 100°F	639	2019
SUS @ 210°F	77	133
Brookfield, cP @ -12°C	N.A.	65,000
@ -26°C	90,000	N.A.
Viscosity Index	103	97
Pour Point, °C (°F)	20 (-4)	-18 (0)
Flash Point, °C (°F)	215 (420)	248 (425)
CRC L-37 Torque	Qualifies	Qualifies
CRC L-42 Shock	Qualifies	Qualifies
API Gravity	26.4	25.7

SAE	Part No.	Container Size	Pkg. Qty.
80W90	139039A1	☁ 1 Gal./3.79L	4
80W90	139801A1	☁ 5 Gal./18.93L	1
80W90	246666A1	☁ 16 Gal./60.64L	1
80W90	181383A1	☁ 55 Gal./208.19L	1
85W140	139041A1	☁ 1 Gal./3.79L	4
85W140	407364R2	☁ 5 Gal./18.93L	1
85W140	407538R2	16 Gal./60.64L	1
85W140	407365R2	☁ 55 Gal./208.19L	1

☁ - Available in Canada

Case IH 135H EP Gear Lubricant is formulated to prevent gear damage in applications where extreme pressure, shock loads and combination of high speed/low torque or low speed/high torque conditions may be encountered.

Formulated to stand up to high temperature conditions. Case IH 135H EP Gear Lubricant provides superior foam control and oxidation stability. 135H EP uniquely prevents objectionable deposits and corrosion in gear cases and on bearing rollers, races and thrust washers.



Lubricants

CASE IH LIMITED SLIP ADDITIVE
SPECIALTY FLUIDS/LUBRICANTS

CASE BRAKE REBUILD ADDITIVE
SPECIALTY FLUIDS/LUBRICANTS



LIMITED SLIP ADDITIVE

Part No.	Container Size	Pkg. Qty.
B91246	☁ 1 Pt./.47L	12

☁ - Available in Canada

A specially compounded formula which, when used in driving axles equipped with any type of limited slip or Power-Lok differentials, tends to:

- Reduce clutch plate friction
- Eliminate clutch clatter
- Facilitate application and release of clutch plates

Refer to lubrication chart or operator's manual for correct axle lubricant capacity. Add contents to axle lubricant through regular lubricant inlet port of axle housing.

Part No.	Container Size	Pkg. Qty.
B91443	☁ 1 Qt./.95L	12

☁ - Available in Canada

Developed for use in Case 580K Wheel Tractor transaxles beginning with P.I.N. JJG0020000. Case Brake Rebuild Additive is a concentrated blend of a selected friction modifier and Case IH Hy-Tran® Ultra (MS1209), designed to reduce brake chatter.

Brake Rebuild Additive is a supplemental "plus" to Hy-Tran Ultra that is used as factory fill transaxle fluid (MS1223). When brake linings are replaced or when make up or service fill fluid results in brake chatter, add 1 quart additive to 15 gallons (60 quarts) Hy-Tran Ultra (MS1209). Recirculate the mixture by driving the tractor for 10 minutes.

CAUTION: This additive is already present in factory fill fluid to assist in the break-in process. Over concentration could result in loss of braking capacity, and reduced performance in other critical components. Not recommended for use in fluids other than Hy-Tran Ultra.

Lubricants

CASE CRAWLER BRAKE OIL (L-3828)

CASE IH SEED FLOW LUBRICANT

SPECIALTY FLUIDS/LUBRICANTS

SPECIALTY FLUIDS/LUBRICANTS



Part No.	Size	Pkg. Qty.
B91244	☼ 1 Qt./.95L	12

☼ - Available in Canada

Designed for use in Case Modes 450C, 455C, 850D and 855D Crawler brake actuators and Model 1085C Rubber Tire Excavator accelerator circuits.

Case Crawler Brake Oil is a mineral oil based, low temperature hydraulic fluid. It is designed to be compatible with factory installed elastomer seals that chemical synthetic fluids (e.g. DOT 3 Brake Fluid) would cause to swell severely.

Air craft hydraulic oil meeting U.S. Military Specification MIL-H-5606 may also be used in these applications.

TYPICAL PROPERTIES

	Specification	L-3828
Viscosity: cSt, @ 100°C cSt, @ 40°C	3.0 max 1650 max	2.9 1500
Flash Point, °C	140 min	152
Trace Sediment, Vol %	0.005 max	Pass
Water, Vol %	0.1 max	Pass
Foaming Characteristics Tendency Stability	50 max <10	Pass Pass
Elastomer Compatibility ASTM D-1414 Modified Volume Change Hardness Change	0 to +5% +/-5 points	Pass Pass

Part No.	Container Size	Pkg. Qty.
358379A1	☼ 1 lb./454 kg. Shaker Can w/Tip	12
407486R1	☼ 1 lb./454 kg. Shaker Can	24

☼ - Available in Canada

Case IH Seed Flow Lubricant makes seed flow smoothly in planter hoppers and lubricates planter mechanisms. Developed for Cyclo Planters, this graphite lubricant can be used in other planters as well. Convenient shaker can provides a light covering over bottom of hopper and its working parts. Fill hopper halfway and shake another light covering. Fill the hopper and give a final light covering over the top.

One can contains enough lubricant to treat 42 bushels of seed corn.



Lubricants

CASE IH GRAPHITE LUBRICANT

AG LUBRICANT

SPECIALTY FLUIDS/LUBRICANTS

SPECIALTY FLUIDS/LUBRICANTS



SLIP-PLATE NO. 1 AND NO. 3

Part No.	Container Size	Pkg. Qty.
407408R1	🍁 14 oz. Aerosol - No. 3	12
547596R1	🍁 1 Qt./95L - No. 1	6
1131916R1	🍁 1 Gal./3.79L - No. 1	4

🍁 - Available in Canada

Case IH Slip-Plate Graphite Lubricants can be sprayed, brushed or rolled onto any metal or wood surface to reduce sliding friction. Use it as a lubricant on chains and sprockets, hitches, overhead door tracks, winches and hinges. Use Slip-Plate for seed drum seal wearing ring and marker alternator of cyclo planters. Also, as a surface conditioner on gravity boxes, hoppers, chutes, moldboards, planters and markers, forage boxes and wagon beds.

Case IH Slip-Plate Lubricants are the most effective products made to prevent hang-up of high moisture grain in hoppers and gravity boxes. Protects metal against rust and corrosion.

FOR PICKERS AND BALERS

Part No.	Container Size	Pkg. Qty.
156576C91	🍁 1 Qt./95L	12

🍁 - Available in Canada

AG Lubricant is specified for use in bank lubricating systems in corn pickers and balers. This grease remains pumpable down to -30°F (-34°C) and retains its lubricating qualities up to 250°F (121°C). It's oxidation and storage stable to maintain lubricating, rust and corrosion inhibiting properties even through long periods of inactivity characteristic of seasonal farm equipment. AG Lubricant is thin enough to go through the bank tube systems, but thickens when worked in the bearings to extend their life.

Lubricants

MOLYKOTE G-n LUBRICANT	EP-O GREASE
SPECIALTY FLUIDS/LUBRICANTS	SPECIALTY FLUIDS/LUBRICANTS



Part No.	Container Size	Pkg. Qty.
384646R1	🍁 2.8 oz. tube	1

🍁 - Available in Canada

For special applications such as lubricating front mounted pump drive splines.



Part No.	Container Size	Pkg. Qty.
B505226	🍁 3.35 fl. oz.	12

🍁 - Available in Canada

Used on 3204, 3205, 3206 and 3309 Pull-Type Windrowers.

ULTRA BLUE HI-TEMP GREASE



Part No.	Container Size	Pkg. Qty.
B90940	🍁 14 oz. Cartridge	40

🍁 - Available in Canada