



# MORTRAN TRANSMISSION / HYDRAULIC FLUID



## INTRODUCTION

MORBARK MORTRAN is a heavy duty transmission/hydraulic fluid designed for tractors with a common oil system for transmission differential, final drive, hydraulic, power take-off, wet brake and power steering mechanisms. Blended from ultra pure HT severely Hydrocracked base oil, shear-stable viscosity index improver and a leading edge additive package, this fluid offers superior performance.

## PERFORMANCE BENEFITS

### **- Outstanding resistance to oxidation and high temperature breakdown**

- Minimizes the build-up of sludge and varnish on transmission and hydraulic components
- Lengthens time between oil changes
- Extends transmission life
- Increases equipment reliability

### **- Excellent fluidity at low temperatures**

- HT severely Hydrocracked base oil provides smoother cold weather operation
- Extra protection against transmission wear during cold weather operation

### **- Excellent wear protection**

- Minimizes wear on differential and final drive gears during shock loading
- Minimizes wear in hydraulic and power steering pump mechanisms
- Reduces maintenance costs and increases reliability

### **- Optimized lubrication and frictional properties**

- Optimizes operation of wet brake, clutch and power take-off mechanisms
- Prevents brake chatter and eliminates wet brake noise
- Makes equipment operation easier and extends component life


## APPLICATIONS

MORBARK MORTRAN is recommended for use in tractors, construction and off-highway equipment that use a common oil system for a transmission, final drive, hydraulic, power take-off, wet brake and power steering mechanisms. In transmissions specifying an Allison C-4 or Caterpillar TO-2 fluid.

MORBARK MORTRAN is formulated to meet or exceed the field performance requirements of a wide range of equipment makers including the major North American tractor manufacturers. MORBARK recommends MORTRAN for use where the following tractor fluid types are required: see reverse side.

## HEALTH AND SAFETY

MORBARK MORTRAN OIL has no adverse effects on health provided they are used as directed. Material Health and Safety Data Sheets can be obtained from your Morbark representative, or by calling the number below.

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## TRACTOR FLUIDS

MANUFACTURERS	CURRENT SPECIFICATIONS	MEETS OLDER SPECIFICATIONS
JOHN DEERE	JDM J20C(DURATRAN)  JDM J20D (Duratran Winter/All Season)	JDM J20A/B, JDM J14B JD 303 Fluid
NEW HOLLAND GROUP (FORD NEW HOLLAND)	FNHA-2-C-201.00 (134-D) FNHA-2-C-200.00	ESN-M2C134-A/B/C ESN-M2C86-B, ESN-M2C53-A ESN-M2C48-B
MASSEY-FERGUSON	M-1141, M-1135	M-1129-A, M-1127-A/B, M-1110
CASE CORP (CASE I.H., J.I. CASE)	MS-1207, MS-1210/JIC145, MS-1230	B6, MS-1206, MS-1205, MS-204/JIC-185, JIC-144, JIC-143 B-5
KUBOTA	UDT Hydraulic Fluid Universal Transdraulic Fluid	
WHITE FARM (OLIVER)	Q-1826, Hydraulic Transmission Fluid (HTF)	Q-1802, Q-1766B, Q-1722, Q-17055
AGCO Deutz ALLIS, ALLIS	Power Fluid 821 XL 272843	257541 246634
STEIGER	Hydraulic/Transmission Fluid, SEMS 17001	--
VERSATILE	--	Hydraulic/Gear Fluid Spec 24M Spec 23M
LANDINI	Tractor II Hydraulic Fluid	--
HESSTON FIAT	Oilofiat Tutela Multi-F	AF-87
OLIVER	--	Q-1802

## TRANSMISSIONS, DIFFERENTIALS AND HYDRAULICS

MANUFACTURERS	CURRENT SPECIFICATIONS	MEETS OLDER SPECIFICATIONS
SUNSTRAND	Hydraulic Transmission Fluid	--
ALLISON	Type C-4 Fluid	C-3 Fluid
CATERPILLAR	--	TO-2
DRESSER CONSTRUCTION EQUIPMENT DIVISION	Transmission/Hydraulic Fluid	
ABEX/DENNISON	Hydraulic Fluid-HF-0/1/2	
SPERRY VICKERS	M-12950-S, 1-286-S	--
PLESSEY-SUNSTRAND	Hydraulic Fluid	--
CLARK	Lift Truck Transmission Fluid TA12, TA18 HR 500, HR 600	