



PRODUCT BULLETIN



7800 HYDRO POWER FLUID

"A proven concept in the lubrication of combination gear-hydraulic systems"

DESCRIPTION:

Hydro Power Fluid is a multi-functional especially formulated product based primarily on the John Deere Tractor J-20C Specification for transmission hydraulic fluids. By meeting these exacting performance requirements, 7800 Hydro Power Fluid will serve as service fill for virtually all makes of wheeled tractors requiring a gear-hydraulic oil for main power transmission, wet brake, and auxiliary hydraulic power functions. This feature will allow the user to reduce inventories of gear-hydraulic fluids by using a single product for all requirements.

Hydro Power Fluid is blended from highly refined high natural viscosity index base oils and the additive system contains additives to provide excellent high temperature stability and oxidation resistance and superior low temperature flow properties. Additionally, it contains extremely effective anti-wear agents to assure long service life from transmission gears and other parts; strong inhibitor systems to minimize wear; and special dispersant/detergents to prevent sludging, varnish build-up, and to maintain general system cleanliness.

APPLICATIONS:

Hydro Power Fluid is recommended for all tractor applications where high quality transmission/hydraulic fluids are required. It is particularly recommended as a replacement fluid for the following O.E.M. specification lubricants:

JOHN DEERE MASSEY-FERGUSON	J20 A thru D, J14 B/C, J21A, JDT 303, J27 M-1110, M-1127A/B, M-1129A, M-1135, M1141
J.I. CASE , including Intl. Harvester , Case-IH , Steiger	MS-1204 thru 1207, JIC 185 MS-1210, JIC 145, JIC 143/144, B-6 (Intl. Harvester) Hy-Tran, SEMS 17001 (Steiger)
FORD NEW HOLLAND (Fiat), including Ford , Sperry-Vickers , Versatile , New Holland , Fiat	ESN-M2C134-A thru D, ESN -M2C86-B/C, ESN-M2C53-A/B, ESN-M2C48-B/C, ESN-M2C43, ESN-M2C41-B, ESN-M2C92-A, Specification 23M or 24M (Versatile), I-286-S (Vickers), M-2950-S (Vickers)
AGCO , including AGCO-Allis , Allis-Chalmers , Deutz-Allis	Power Fluid 821XL
KUBOTA	UDT
HESSTON & HESSTON-FIAT (tractors only)	AF-87
ALLISON WHITE FARM EQPT. , including Minneapolis-Moline , Oliver , New Idea	C2 thru 4 Q-1826, Q-1766, (Q-1722), Q-1766B, Q-1705, Q-1802, Type 55
RENK-DOROMAT CATERPILLAR SUNSTRAND	873, 874 A/B TO-2 Hydrostatic Transmission

USER BENEFITS:

- * REDUCES CORROSIVE WEAR
- * ELIMINATES FOAM
- * REJECTS WATER
- * RESISTS OXIDATION
- * REDUCES METAL WEAR
- * GIVES LESS DOWNTIME
- * LOWERS PARTS COST
- * ALLOWS SMALLER INVENTORY
- * PRODUCES EVEN POWER
- * LOWERS TEMPERATURES
- * HAS A LOW POUR POINT
- * RESISTS EXTREME PRESSURES
- * HIGH FILM STRENGTH
- * HIGH NATURAL VISCOSITY INDEX

TYPICAL TEST DATA:

	TEST METHOD	TEST RESULTS
SAE Grade		20
ISO Number		68
Gravity, API		29.5
Viscosity		
SUS @ 100°F. (38°C.)		320
SUS @ 210°F. (99°C.)		59.2
cSt @ 40°C. (104°F.)		65
cSt @ 100°C. (212°F.)		9.8
Viscosity Index		130
Flash Point, °F. (°C.)		390(199)
Pour Point, °F. (°C.)		-35 (-37)
Color		Red
Seal Test (Ford)	RDR008	Pass
Foam Test	D892	Pass
Rust Protection	D-665	Pass
Copper Strip	D-130	1a
Wear and EP Test	Detroit Diesel Allison Type	
	C-4	Pass
Four Ball Test (Ford)	M2C134D	Pass
Gear Wear Test	JD. J-20C	Pass

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