



Product Data Sheet

Dakota Tractor Hydraulic Fluid Multi-Purpose Tractor Lubricant

PRODUCT DESCRIPTION

Dakota Tractor Hydraulic Fluid is an extra high performance multi-purpose tractor lubricant engineered to meet or exceed transmission and hydraulic fluid requirements. The advanced technology in this lubricant is designed to optimize the performance of agricultural and commercial tractors operating in a wide range of environments and conditions. Dakota Tractor Hydraulic Fluid combines select base oils and an advanced additive package to deliver the varied lubricant performance properties required in severe duty applications of agricultural and construction equipment drive trains. It is particularly well suited for reducing wet brake and Power Take-Off (PTO) chatter.

FEATURES AND BENEFITS

Next generation technology has vastly improved the performance capabilities of heavy-duty equipment in terms of load, speed, control, and reliability through innovative power train designs. These designs have markedly changed and increased the requirements of power train fluids to deliver higher levels of performance and productivity while reducing operating costs. Friction control, wear protection, thermal stability, shear stability, rust and corrosion protection, and pumpability are features that must be optimally balanced to provide extended clutch life, maximum drawbar loading, and maintain operations on uneven terrain over a wide range of ambient temperatures.

Dakota Tractor Hydraulic Fluid delivers exceptional performance in today's power train transmissions, drive axles, clutches, PTOs and hydraulic systems. The key benefits include:

| Features | Advantages and Potential Benefits |
|---|--|
| Enhanced frictional properties | Optimized clutch and PTO performance Improved wet brake and PTO chatter control |
| Compatible with latest clutch materials and elastomers | Longer clutch life and reduced leakage |
| High viscosity index and shear stability | Consistent operating response |
| Excellent protection against rust, corrosion and yellow metal etching | Protects equipment in wet or humid environments and prevents premature wear |
| Excellent low temperature properties | Responsive operation and effective lubrication in cold weather applications |
| Strong anti-wear and extreme pressure properties | Reduces wear, extends equipment life, and reduces maintenance costs |
| Excellent thermal and oxidation stability | Reduces deposits, extends seal life, and increases service life of equipment and lubricant |
| Multipurpose capability | Simplifies inventory and reduces misapplication problems |
| Good filterability | Keeps systems clean and operating smoothly |



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APPLICATIONS

Recommended for use in:

- Heavy-duty transmissions, differentials, final drives, hydraulic systems, power steering systems, wet brakes, PTOs and hydrostatic drives
- Off-highway industries including: agriculture, construction, and quarrying
- Top-up and refill of systems
- Commercial transmission applications requiring Type A (Suffix A), Dexron and Type F fluids. Do not use in passenger car automatic transmissions
- Applications requiring API GL-4 or SAE 80W grade lubricants in all gear applications except hypoid gear designs
- Outstanding replacement for engine oils recommended for hydraulic and transmission systems

SPECIFICATIONS AND APPROVALS

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|---|---|
| Dakota Tractor Hydraulic Fluid meets or exceeds the requirements of the following industry and builder specifications: | |
| Kubota UDT | X |

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|--|---|
| Dakota Tractor Hydraulic Fluid has the following builder approvals: | |
| ZF TE-ML 03E/05F/17E | X |
| Volvo WB-101 | X |

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|---|---|
| Dakota Tractor Hydraulic Fluid is recommended for use in applications requiring: | |
| Allison C-4 (Agriculture Applications Only) | X |
| API GL-4 | X |
| Vickers 35VQ25 | X |
| Caterpillar TO-2 | X |
| CNH MAT 3505, 3525 | X |
| Denison HF-0, HF-1, HF-2 (T5D & P46 pumps only) | X |
| Ford New Holland ESN-M2C-134-D | X |
| Ford New Holland FNHA-2C-201.00 | X |
| JI Case MS 1204-07/09 | X |
| Massey Ferguson M-1135 M-1141 | X |
| Powerfluid 821 XL | X |
| John Deere J20C | X |



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TYPICAL PROPERTIES

| Choice Tractor Hydraulic Fluid | |
|---------------------------------------|------|
| Viscosity, ASTM D 445 | |
| cSt @ 40°C | 55 |
| cSt @ 100°C | 9.3 |
| Brookfield Viscosity, cP (@ -20°C) | 4300 |
| Viscosity Index, ASTM D 2270 | 145 |
| Pour Point, °C, ASTM D 97 | -42 |
| Flash Point, °C, ASTM D 92 | 198 |
| Density @ 15°C, kg/l, ASTM D 4052 | 0.88 |

HEALTH AND SAFETY INFORMATION

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet.