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STARFIRE SF Premium J20C Tractor Hyd Fluid

STARFIRE SF Premium J20C Tractor Hydraulic & Transmission Fluid: User Manual

Model: SF Premium J20C Tractor Hyd Fluid

1. Introduction

This manual provides comprehensive instructions for the proper application, handling, and storage of STARFIRE Premium Tractor Hydraulic & Transmission Fluid. This multi-purpose fluid is engineered for optimal performance in various agricultural and off-highway equipment, ensuring reliable operation and protection of critical components.



Image 1.1: STARFIRE Premium Tractor Hydraulic & Transmission Fluid 5 Gallon Pail.

2. Product Overview and Key Features

STARFIRE Premium Tractor Hydraulic & Transmission Fluid is a high-quality, multi-purpose lubricant designed to meet the demanding requirements of modern farm and construction equipment. Its advanced formulation provides:

- **Multi-System Protection:** Formulated for use in hydraulic systems, transmissions, final drives, and wet brakes, offering comprehensive protection across multiple critical components.
- **Industry Standard Compliance:** Meets or exceeds J20C specifications and other major OEM performance requirements for farm and construction equipment.
- **Consistent Power & Shifting:** Optimized friction properties ensure smooth gear transitions, efficient power transfer, and reduced brake chatter under demanding working conditions.
- **Wear, Sludge & Varnish Defense:** An advanced additive system defends components against wear, deposits, and sludge, even in high-load, high-hour agricultural and logging operations.
- **All-Season Performance:** Excellent thermal stability and oxidation resistance ensure reliable performance through extreme temperatures, moisture, and extended service intervals.



Image 2.1: Visual representation of the fluid's protective qualities for equipment.

3. Application Guidelines

Proper application of STARFIRE Premium Tractor Hydraulic & Transmission Fluid is crucial for optimal performance and equipment longevity.

3.1 Fluid Selection

Always refer to your equipment manufacturer's manual for the recommended fluid type and specifications. This fluid is designed to meet J20C specifications and is suitable for a wide range of equipment requiring this standard.

3.2 Adding Fluid

1. Ensure the equipment's fluid system is clean and free from contaminants before adding new fluid.
2. Locate the appropriate fill points for hydraulic systems, transmissions, or other components as specified in your equipment manual.

3. Use clean, dedicated funnels and containers to prevent the introduction of foreign particles or incompatible fluids.
4. Add fluid slowly to avoid overfilling and air entrapment.

3.3 Compatibility

Do not mix this fluid with incompatible lubricants. Consult your equipment's specifications or a qualified technician if you are unsure about fluid compatibility.



Image 3.1: Illustrates the multi-purpose nature of the fluid for various tractor systems.

4. Operating Instructions

Adhering to proper operating procedures ensures the fluid performs as intended and protects your equipment.

4.1 Fluid Level Checks

Regularly check fluid levels according to your equipment manufacturer's recommendations. Typically, this involves

checking when the equipment is level and the fluid is at operating temperature, or as specified in the manual.

4.2 Maintaining Fluid Levels

Maintain fluid levels within the specified range (e.g., between 'min' and 'max' marks on a dipstick or sight glass) to ensure proper system operation and prevent damage from insufficient lubrication or excessive pressure.

4.3 Performance Monitoring

Observe equipment performance for any signs of fluid-related issues, such as unusual noises, erratic shifting, reduced hydraulic response, or overheating. Promptly investigate any anomalies.

5. Maintenance

Proper maintenance practices extend the life of your equipment and the effectiveness of the fluid.

5.1 Fluid Change Intervals

Follow the equipment manufacturer's recommended fluid change intervals. These intervals can vary significantly based on operating conditions, equipment type, and environmental factors. Regular fluid analysis can help optimize change schedules.

5.2 Proper Disposal

Used hydraulic and transmission fluid must be disposed of responsibly. Do not discharge into drains, soil, or water bodies. Take used fluid to an authorized recycling facility or collection point in accordance with local regulations.

6. Troubleshooting

While this fluid is designed for reliable performance, operational issues can sometimes arise. This section provides general guidance for troubleshooting fluid-related concerns.

- **Poor Hydraulic Response or Noisy Operation:** Check fluid level. Low fluid can cause cavitation and poor performance. Ensure the correct fluid type is used.
- **Erratic Shifting or Brake Chatter:** Verify fluid level and condition. Contaminated or degraded fluid can affect friction properties.
- **Overheating:** Ensure fluid level is correct. Overheating can be caused by low fluid, incorrect fluid viscosity, or mechanical issues.

If problems persist after verifying fluid level and condition, consult your equipment's service manual or a qualified technician for further diagnosis.

7. Specifications

Attribute	Detail
Material	Synthetic
Brand	STARFIRE
Package Information	Pail

Attribute	Detail
Liquid Volume	5 Gallons (640.0 Fluid Ounces)
Recommended Uses	Industrial, Automotive
Specific Uses / OEM Equivalents	• Allison: C-4 • John Deere: Quatrol, J20C, J20A, J21A, Hy-Gard J14B/C • International Harvester: Hy-Tran, B-6 • AGCO (Massey Ferguson): M-1145, M-1143, M-1110, M-1127B, M-1129A, M-1135 Permatran III, M-1138, M-1141, White Q-1826, & Allis Chalmers Power Fluid 821 XL, Duetz-Allis Hyd Trans Fluid, 25743, 272843, & AGCO-Allis • J.I. Case: TFD (JIC-143/146), Hi-Vis (JIC-185), JIC-144/145, MS-1204, MS-1205/1206/1207, MS-1210 (TCH) and B-6 • Case New Holland: MAT 3505, MAT 3525, MAT 3526, ESN M2C86- A/B/C, M2C134-A/B/C/D, M2C41-B, M2C43, M2C53A/B, M2C92-A • Vickers: I-2986-S, 104C, & M2950S, Denison UTTO, HF-0, HF-01, HF-02 • Kubota Universal Transdraulic Fluid: UTD & Super UTD • Sundstrand Hydrostatic Transmissions: JDQ-84 • Volvo: BM, VCE 1273.03 & WB-101 (wet brake) • Caterpillar: TO-2 & MTO (Multi-Application Tractor Oil) for older backhoe loader rear axles and Challenger Tractors
Item Form	Liquid
Item Weight	38.2 pounds
Product Dimensions	15.2 x 10.6 x 9.5 inches
Model Number	SF Premium J20C Tractor Hyd Fluid
UPC	810029021388

8. Safety Information

Always prioritize safety when handling lubricants. Read and understand all safety information before use.

- **Personal Protection:** Avoid prolonged or repeated skin contact. Wear appropriate personal protective equipment, such as gloves and eye protection, when handling. Wash thoroughly with soap and water after handling.
- **Ingestion:** Do not ingest. If swallowed, do not induce vomiting. Seek medical attention immediately.
- **Inhalation:** Avoid breathing oil mists or vapors. Use in a well-ventilated area. If inhaled, move to fresh air.
- **Storage:** Keep out of reach of children and pets. Store in a cool, dry, well-ventilated area away from open flames, heat sources, and incompatible materials. Keep containers tightly closed when not in use.
- **Spills:** In case of spills, contain the fluid and absorb with an inert material. Dispose of contaminated materials in accordance with local regulations.

- **Fire Hazard:** This product is combustible. In case of fire, use foam, dry chemical, or CO2 extinguishers. Do not use water jet.

For detailed safety information, refer to the Safety Data Sheet (SDS) available from the manufacturer.

9. Warranty and Support

For product support, technical assistance, or warranty inquiries, please visit the official STARFIRE brand store or contact customer service through the provided channels.
Official STARFIRE Brand Store: Visit the STARFIRE Store

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