Product Description

MERU FORCE 1 Premium Multi-Functional Universal Tractor Transmission Oil (UTTO) 10W30 is specially designed for use in transmissions, hydraulic systems, oil immersed brakes, and other ancillary systems fitted to agricultural tractors and off-road equipment.

MERU FORCE 1 UTTO 10W30 oil is blended from high quality base oils and additives to provide wear protection, thermo-oxidative stability, frictional characteristics and rust & corrosion protection.

Performance, Features & Benefits

- **Enhanced Protection**
  Excellent anti-oxidation, anti-wear, anti-corrosion and anti-foaming characteristics provides maximum protection to the machines that results minimizing cost and maximizing the utilization.

- **High Shear Stability**
  Maintains Viscosity and stays in Grade throughout the oil change interval.

- **Operator Comfort**
  The excellent low temperature fluidity results high performance in hydraulic system, smooth gear shift from cold start to maximum operating temperatures. Friction modifying additives help smooth, noise free operation of oil immersed brakes.

Specifications, Approvals & Recommendations

- JOHN DEERE - JDM J20C/D
- CNH-MAT 3525 ‘134-D FLUID’
- MASSEY FERGUSON - CMS M1135 M1141 M1143 M1145
- VCE- WB101
- API GL-4 (only for off-road equipment)
- ZF TE-ML-03E, TE-ML-05F, TE-ML-06K, TE-ML-17E

For a full listing of equipment approvals and recommendations, please consult your local MERU FORCE1 Technical Team.

Main Applications

- Drive axle and hydro mechanical gearbox in agricultural and construction equipment produced by John deer, Massey Ferguson, Ford-New Holland and other OEMs.
- It also suitable for use in hydraulic systems of tractors, combines and farm machinery. It is suited for oil-cooled disc brake systems.
Product Specifications

<table>
<thead>
<tr>
<th>Test Parameters</th>
<th>Test Method</th>
<th>FORCE 1 UTTO 10W30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Appearance</td>
<td>Visual</td>
<td>Bright &amp; Clear</td>
</tr>
<tr>
<td>Density @ 15° C</td>
<td>ASTM D4052</td>
<td>0.861</td>
</tr>
<tr>
<td>Kinematic Viscosity @ 40° C</td>
<td>ASTM D445</td>
<td>68.5</td>
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<tr>
<td>Kinematic Viscosity @ 100° C</td>
<td>ASTM D445</td>
<td>11.0</td>
</tr>
<tr>
<td>Viscosity Index</td>
<td>ASTM D2270</td>
<td>152</td>
</tr>
<tr>
<td>Flash Point ° C</td>
<td>ASTM D92</td>
<td>224</td>
</tr>
<tr>
<td>Pour Point ° C</td>
<td>ASTM D97</td>
<td>-39</td>
</tr>
</tbody>
</table>

Typical Values Batch wise variation may occur, please consult with MERU FORCE 1 representatives for current TDS.

Health, Safety & Environment

✔️ Health and Safety
MERU FORCE1 UTTO 10W-30 is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from Our sales office or via internet.

✔️ Protect the Environment
Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

Additional Information

✔️ Storage
All packages should be stored under cover, where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

✔️ Advice
Advice on applications not covered here may be obtained from your FORCE 1 representative.