**PUMP SPECIFICATIONS**

**Size:** 6" Trash, Materials, Sludge Pump  

**Volute:** Fabricated Steel (optional stainless steel and special abrasion resistant steel volutes are available)  

**Impeller:** Recessed vortex, 6 Vane. (optional stainless steel or special abrasion resistant steel impellers are available)  

**Solids:** Handles 3.5" diameter compressible spherical solids.  

**Impeller Shaft:** High strength steel  

**Seal:** Rotary Mechanical, oil-lubricated, carbon & ceramic (optional tungsten carbide or silicon carbide seals are available option)

**Hydraulic System**  

**Hydraulic Reservoir level:** 50 gallon capacity with twin 10 micron spin on oil filter  

**Hydraulic Oil:** Petroleum based AW68 Furnished standard (optional canola bio-degradable oil or mineral based non-toxic inherently bio-degradable oil available)  

**Hydraulic Pump:** Denison vane type positive displacement pump with pilot operated Denison relief valve  

**Hydraulic Motor:** Vickers vane type positive displacement motor  

**Heat Exchanger:** Double row, SCH 40 pipe with integral intake basket (optional engine mounted oil cooler available)  

**Hydraulic Hose:** 50' set of SAE 100R2, two wire braid high-pressure hose  

**Pump Head Fail Safe Pressure Relief System:** Available as option to protect system against improper connection or interruption of biodegradable oil flow from pump head to power unit

**ENGINE SPECIFICATIONS**  

**Model:** John Deere 4045D, Tier 3  

**Type:** 4 Cylinder, 4 Stroke, Naturally Aspirated, Liquid Cooled Diesel Engine  

**Displacement:** 4.5L (276 cu.in.)  

**Governor:** Mechanical  

**Lubrications:** Forced Circulation  

**Air Cleaner:** Dry Type with Replaceable Element  

**Lube Oil Capacity:** 3.5 U.S. Gallons (13.2L)  

**Coolant Capacity:** 2.25 U.S. Gallons (8.5L)  

**Fuel Tank:** Integral 114 U.S. Gallon Capacity (#2 Diesel Fuel)  

**Full Load Operating Time:** 60 Hours Minimum @ 2000 PSI  

**Starter:** 12 Volt, 2.0 kW  

**Standard Features:** Murphy control panel - 3 Gauges: Oil Pressure, Engine Temperature, Hour meter plus lights for engine running, low oil pressure, high engine temperature, overcrank, and overspeed. Toggle switch start/stop.  

**Optional Features:** NEMA 4 Instrument Package Covering: Air Filter, Fuel Filter, Engine Temperature Level, Fuel Level, Engine Oil Pressure, Hour Meter, Amp Meter, Hydraulic Oil Pressure  

**John Deere Published Performance:** Maximum Continuous Power: 72 BHP (57kW) @ 2400 RPM  

<table>
<thead>
<tr>
<th>H6TMS @ 2000 PSI</th>
<th>Capacity of Pump in U.S. Gallons per Minute (gpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20’ Head</td>
<td>1200</td>
</tr>
<tr>
<td>10’ Head</td>
<td>1400</td>
</tr>
</tbody>
</table>

Specifications subject to change without notice
6” Hydraulically Driven Submersible System
Model H6TMS - D4045
Size 6” Trash, Materials, Sludge Pump

Approximate Dimensions
Powered by John Deere 4045D Engine, Optional
Single Axle Trailer Shown

Performance Curve Model: H6TMS - D4045D
Size: 6” Trash, Materials, Sludge Pump

U.S. Gallons Per Minute (GPM) @ 2000 PSI