NEBRASKA TRACTOR TEST 1906
JOHN DEERE 5625 DIESEL
9 SPEED

### POWER TAKE-OFF PERFORMANCE

<table>
<thead>
<tr>
<th>Power</th>
<th>Crankshaft speed rpm</th>
<th>Gal/hr (l/h)</th>
<th>Bhp/hr (kg/kW.h)</th>
<th>Hp.hr/gal (kW.h/l)</th>
<th>Mean Atmospheric Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>82.81</td>
<td>2399</td>
<td>5.64</td>
<td>0.477</td>
<td>14.67</td>
<td>(61.75) (21.36) (0.290) (2.89)</td>
</tr>
</tbody>
</table>

**MAXIMUM POWER AND FUEL CONSUMPTION**

<table>
<thead>
<tr>
<th>Power</th>
<th>Crankshaft speed rpm</th>
<th>Gal/hr (l/h)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>87.44</td>
<td>2200</td>
<td>5.46</td>
<td>0.437</td>
<td>16.02</td>
<td>(65.21) (20.66) (0.266) (3.16)</td>
</tr>
</tbody>
</table>

**VARYING POWER AND FUEL CONSUMPTION**

<table>
<thead>
<tr>
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<th>Crankshaft speed rpm</th>
<th>Gal/hr (l/h)</th>
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</thead>
<tbody>
<tr>
<td>74.64</td>
<td>2544</td>
<td>5.56</td>
<td>0.521</td>
<td>13.43</td>
<td>75°F (25°C) (55.66) (21.04) (0.317) (2.65)</td>
</tr>
<tr>
<td>56.56</td>
<td>2573</td>
<td>4.76</td>
<td>0.589</td>
<td>11.89</td>
<td>Relative humidity 51% (42.18) (18.01) (0.358) (2.34)</td>
</tr>
<tr>
<td>38.13</td>
<td>2591</td>
<td>3.90</td>
<td>0.716</td>
<td>9.78</td>
<td>Barometer 28.82&quot;Hg (97.60 kPa) (14.31) (10.00) (0.586) (1.43)</td>
</tr>
<tr>
<td>19.20</td>
<td>2619</td>
<td>2.64</td>
<td>0.964</td>
<td>7.26</td>
<td>(29.43) (14.26) (0.436) (1.93)</td>
</tr>
<tr>
<td>0.62</td>
<td>2634</td>
<td>1.79</td>
<td>20.232</td>
<td>0.35</td>
<td>(0.46) (6.76) (12.306) (0.07)</td>
</tr>
</tbody>
</table>

Maximum torque - 250 lb.-ft. (339 Nm) at 1602 rpm
Torque rise at 1901 rpm - 28%
Power increase at 2200 rpm - 5%

### Location of tests:
Nebraska Tractor Test Laboratory, University of Nebraska, Lincoln Nebraska 68583-0832

### Dates of tests:
September 7 - 11, 2007

### Manufacturer:
John Deere Commercial Products Inc., 700 Horizon South Parkway, Grovetown Ga. USA, 30813

### FUEL, OIL and TIME:
Fuel No. 2 Diesel
Specific gravity converted to 60°/60°F (15°/15°C)
0.8407
Fuel weight 7.000 lbs/gal (0.839 kg/l)
Oil SAE 15W40 API service classification CG-4
Transmission and hydraulic lubricant John Deere Hy-Gard fluid
Front axle lubricant SAE 80W90 API GL-5
Total time engine was operated 8.0 hours

### ENGINE:
Make: John Deere Diesel
Type: four cylinder vertical with turbocharger
Serial No. *PE4045T668544*
Crankshaft lengthwise
Rated engine speed 2400 Bore and stroke 4.19" x 5.00" (106.4 mm x 127.0 mm)
Compression ratio 17.0 to 1 Displacement 276 cu in (4517 ml)
Starting system 12 volt Lubrication pressure Oil cleaner one paper element and one polyester felt element Oil filter one full flow cartridge Oil cooler engine coolant heat exchanger for crankcase oil Fuel filter one paper element Muffler underhood Exhaust vertical Cooling medium temperature control one thermostat

### ENGINE OPERATING PARAMETERS:
Fuel rate: 36.6 - 40.6 lb/h (16.6 - 18.4 kg/h)
High idle: 2600 - 2650 rpm Turbo boost: nominal 13.1 - 15.2 psi (90 - 105 kPa) as measured 14.1 psi (97 kPa)

### CHASSIS:
Type: front wheel assist
Serial No. *LV5625S160007*
Tread width: rear 55.8" (1417 mm) to 71.7" (1820 mm) from 52.8" (1340 mm) to 75.0" (1904 mm) Wheelbase: 85.7" (2178 mm)
Hydraulic control system direct engine drive Transmission selective gear fixed ratio Nominal travel speeds mph (km/h) first 5.58 (9.00) second 10.01 (16.06) third 13.40 (21.57) fourth 17.84 (28.68) fifth 22.24 (35.74) sixth 26.63 (42.83) seventh 31.03 (49.86)
Clutch single dry disc operated by foot pedal Brakes single wet disc mechanically operated by two foot pedals which can be locked together

### TIRE AND WEIGHT:
Rear tires—No., size, ply & psi (kPa)
Front tires—No., size, ply & psi (kPa)
Height of drawbar
Static weight with operator—Rear
"Front"
"Total"
Tested without ballast
Two 60.9-30:6;12(85)
Two 11.2:24;8:14(95)
17.01n (430 mm)
5585 lbs (1626 kg)
2620 lbs (1188 kg)
6205 lbs (2814 kg)

### TRACTOR SOUND LEVEL WITHOUT CAB

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<tr>
<th>Engaged</th>
<th>Disengaged</th>
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<tr>
<td>dB(A)</td>
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THREE POINT HITCH PERFORMANCE (OECD Static Test)

CATEGORY: II
Quick Attach: None
Maximum force exerted through whole range: 3213 lbs (14.3 kN)
   i) Opening pressure of relief valve: NA
   Sustained pressure of the open relief valve: 2818 psi (194 bar)
ii) Pump delivery rate at minimum pressure and rated engine speed:
   iii) Pump delivery rate at maximum hydraulic power:
   Delivery pressure: 2399 psi (165 bar)
   Power: 26.2 HP (19.5 kW)

THREE POINT HITCH PERFORMANCE

Observed maximum pressure psi. (bar) 2830 (195)
Location: remote outlet
Hydraulic oil temperature: °F (°C) 148 (64)
Location: pump inlet
Category: II
Quick attach: none

SAE Static Test—System pressure 2520 psi (174 Bar)
Hitch point distance to ground level in. (mm)
8.0 (203) 15.0 (381) 22.0 (559) 29.0 (737) 36.0 (914)
Lift force on frame lb (kN)
4694 (20.9) 4829 (21.5) 4685 (20.8) 4266 (19.0) 3596 (16.0)

REPAIRS AND ADJUSTMENTS: No repairs or adjustments

REMARKS: All test results were determined from observed data obtained in accordance with official OECD, SAE and Nebraska test procedures. For the maximum power tests, the fuel temperature at the injection pump inlet was maintained at 137°F (58°C).

We, the undersigned, certify that this is a true and correct report of official Tractor Test No. 1906, November 27, 2007.

Roger M. Hoy
Director
M.F. Kocher
V.I. Adamchuk
J.A. Smith
Board of Tractor Test Engineers

JOHN DEERE 5625 DIESEL
Institute of Agriculture and Natural Resources
University of Nebraska–Lincoln