POWER TAKE-OFF PERFORMANCE

<table>
<thead>
<tr>
<th>Power</th>
<th>Crankshaft speed rpm</th>
<th>Gal/hr (l/h)</th>
<th>lb/hp.hr (kgf/hp)</th>
<th>Hp.hr/gal (kW/l)</th>
<th>Mean Atmospheric Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>55.57</td>
<td>2400</td>
<td>3.58</td>
<td>0.453</td>
<td>15.33</td>
<td></td>
</tr>
<tr>
<td>56.51</td>
<td>2576</td>
<td>3.58</td>
<td>0.446</td>
<td>15.79</td>
<td></td>
</tr>
<tr>
<td>57.96</td>
<td>2200</td>
<td>3.47</td>
<td>0.421</td>
<td>16.70</td>
<td></td>
</tr>
</tbody>
</table>

MAXIMUM POWER AND FUEL CONSUMPTION

<table>
<thead>
<tr>
<th>Fuel Crankshaft speed rpm</th>
<th>Gal/hr (l/h)</th>
<th>lb/hp.hr (kgf/hp)</th>
<th>Hp.hr/gal (kW/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>55.57 (41.44)</td>
<td>2400</td>
<td>3.58</td>
<td>0.453</td>
</tr>
<tr>
<td>56.51 (42.14)</td>
<td>2576</td>
<td>3.58</td>
<td>0.446</td>
</tr>
<tr>
<td>57.96 (43.22)</td>
<td>2200</td>
<td>3.47</td>
<td>0.421</td>
</tr>
</tbody>
</table>

VARYING POWER AND FUEL CONSUMPTION

<table>
<thead>
<tr>
<th>Fuel Crankshaft speed rpm</th>
<th>Gal/hr (l/h)</th>
<th>lb/hp.hr (kgf/hp)</th>
<th>Hp.hr/gal (kW/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>40.95 (37.25)</td>
<td>2538</td>
<td>3.47</td>
<td>0.488</td>
</tr>
<tr>
<td>37.99 (32.33)</td>
<td>2572</td>
<td>2.85</td>
<td>0.527</td>
</tr>
<tr>
<td>25.59 (20.98)</td>
<td>2601</td>
<td>2.27</td>
<td>0.624</td>
</tr>
<tr>
<td>12.92 (9.64)</td>
<td>2625</td>
<td>1.37</td>
<td>0.746</td>
</tr>
<tr>
<td>0.68 (0.31)</td>
<td>2634</td>
<td>0.47</td>
<td>0.962</td>
</tr>
</tbody>
</table>

Maximum torque: 155 lb-ft (210 Nm) at 1601 rpm
Maximum torque rise: 27.6%
Torque rise at 1900 rpm: 22%
Power increase at 2200 rpm: 4%

TRACTOR SOUND LEVEL WITHOUT CAB

| At no load in 5th (B2) gear | 91.7 | 91.5 |
| Transport speed - no load - 9th (C3) gear | 91.5 |
| Bystander in 9th (C3) gear | 82.4 |

FUEL, OIL and TIME: Fuel No. 2 Diesel
Specific gravity converted to 60°/60° F (15°/15°C) 0.8450
Fuel weight: 7.036 lbs/gal (0.843 kg/l)
Oil SAE 15W40 API service classification CI-4
Transmission and hydraulic lubricant John Deere Hy-Gard Fluid
Total time engine was operated: 10.0 hours

ENGINE: Make: John Deere Diesel Type: three cylinder vertical with turbocharger
Serial No. *PY3029T140163*
Crankshaft lengthwise Rated engine speed 2400 Bore and stroke 4.19" x 4.33"
(106.5 mm x 110.0 mm) Compression ratio 17.8 to 1 Displacement 179 cu in (2938 ml)

ENGINE OPERATING PARAMETERS: Fuel rate: 24.8 - 27.3 lb/h (11.3 - 12.4 kg/h) High idle: 2575 - 2650 rpm Turbo boost: nominal 12.3 - 15.2 psi (85 - 105 kPa) as measured 14.3 psi (99 kPa)

CHASSIS: Type: front wheel assist Serial No. *PY0655U000852* Tread width rear 55.8" (1417 mm) to 71.7" (1821 mm) front 52.8" (1340 mm) to 75.0" (1905 mm) Wheelbase: 80.7" (2050 mm)
Hydraulic control system: direct engine drive Transmission: selective gear fixed ratio Nominal travel speeds mph (km/h) first 1.27 (2.05) second 2.58 (4.13) third 4.15 (6.67) fourth 5.66 (9.12) fifth 7.26 (11.68) six 8.88 (14.29) seventh 10.51 (17.72) eighth 12.14 (19.51) ninth 13.77 (22.16) Clutch: single dry disc operated by foot pedal
Brakes: single wet disc hydraulically actuated by two foot pedals which can be locked together
Steering: hydrostatic Power take-off: 540 rpm at 2376 engine rpm
Unladen tractor mass: 5500 lb (2495 kg)

Location of tests: Nebraska Tractor Test Laboratory, University of Nebraska, Lincoln Nebraska 68583-0832
Dates of tests: September 30 - October 8, 2009
Manufacturer: John Deere Commercial Products Inc., 700 Horizon South Parkway, Grovetown, Ga. USA, 30813
HYDRAULIC PERFORMANCE

CATEGORY: II
Quick attach: None
OECD Static test
Maximum force exerted through whole range: 3591 lbs (16.0 kN)
  i) Sustained pressure of the open relief valve: 2957 psi (204 bar)
  ii) Pump delivery rate at minimum pressure and rated engine speed:
      11.7 GPM (44.3 l/min)
  iii) Pump delivery rate at maximum hydraulic power:
      11.4 GPM (43.2 l/min)
Delivery pressure: 2652 psi (183 bar)
Power: 17.6 HP (13.2 kW)

THREE POINT HITCH PERFORMANCE

Observed maximum pressure psi (bar): 2796 (193)
Location: remote outlet
Hydraulic oil temperature: °F (°C): 185 (85)
Location: hydraulic sump
Category: II
Quick attach: none

SAE Static Test—System pressure 2480 psi (171 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): 6635 (29.5) 5486 (24.4) 5067 (22.5) 4734 (21.1) 3978 (17.7)

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 133°F (56°C).

We, the undersigned, certify that this is a true and correct report of official Tractor Test No. 1956, December 14, 2009.

Roger M. Hoy
Director

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

SAE Test | OECD Test
---------|---------
A 23.3   | 23.5 590
B 11.0   | 11.0 280
C 14.0   | 14.0 355
D 12.2   | 12.2 310
E 11.1   | 11.1 282
F 6.5    | 6.5 166
G 26.4   | 26.4 670
H 0.2    | 0.2 4
I 15.1   | 15.1 384
J 19.9   | 19.9 504
K 16.1   | 16.1 409
L 38.8   | 38.8 985
M 22.0   | 22.0 559
N 32.5   | 32.5 825
O 8.0    | 8.0 203
P 38.9   | 38.9 987
Q 32.5   | 32.5 825
R 21.2   | 21.2 540

HITCH DIMENSIONS AS TESTED - NO LOAD

John Deere 5065E Diesel

Institute of Agriculture and Natural Resources
University of Nebraska–Lincoln