NEBRASKA OECD TRACTOR TEST 1952–SUMMARY 634
JOHN DEERE 7330 POWRQUAD-PLUS DIESEL
16 SPEED

POWER TAKE-OFF PERFORMANCE

Power HP *(kW)*	Crank shaft speed rpm	Gal/hr *(l/h)*	lb/hp.hr *(kg/kW.h)*	Hp.hr/gal *(kW.h/l)*	Mean Atmospheric Conditions
MAXIMUM POWER AND FUEL CONSUMPTION					
Rated Engine Speed—(PTO speed—1045 rpm)					
129.48 *(96.55)*	2100	7.94 *(30.06)*	0.433 *(0.263)*	16.31 *(3.21)*	
Standard Power Take-off Speed (1000 rpm)					
136.71 *(101.95)*	2010	8.08 *(30.57)*	0.417 *(0.253)*	16.93 *(3.34)*	
Maximum Power (1 hour)					
140.69 *(104.91)*	1750	8.17 *(30.94)*	0.410 *(0.249)*	17.21 *(3.39)*	
VARYING POWER AND FUEL CONSUMPTION					
129.48 *(96.55)*	2100	7.94 *(30.06)*	0.433 *(0.263)*	16.31 *(3.21)*	Air temperature
113.93 *(84.96)*	2176	7.44 *(28.17)*	0.461 *(0.280)*	15.31 *(3.02)*	78°F *(26°C)*
86.82 *(64.74)*	2210	6.41 *(24.27)*	0.521 *(0.317)*	13.54 *(2.67)*	Relative humidity
58.95 *(43.96)*	2249	5.11 *(19.36)*	0.612 *(0.372)*	11.53 *(2.27)*	16%
29.54 *(22.03)*	2263	3.54 *(13.38)*	0.844 *(0.513)*	8.36 *(1.65)*	Barometer
2.96 *(2.21)*	2263	2.23 *(8.44)*	5.310 *(3.230)*	1.33 *(0.26)*	28.9" Hg *(98.10 kPa)*

Maximum torque - 463 lb.-ft. *(628 Nm)* at 1499 rpm
Maximum torque rise - 43.1%
Torque rise at 1700 engine rpm - 33%
Power increase at 1750 engine rpm - 8%

DRAWBAR PERFORMANCE
UNBALLASTED - FRONT DRIVE ENGAGED
FUEL CONSUMPTION CHARACTERISTICS

Power Hp *(kW)*	Drawbar pull lbs *(kN)*	Speed mph *(km/h)*	Crank-shaft speed rpm	Slip %	Fuel Consumption lb/hp.hr *(kg/kW.h)*	Fuel Consumption Hp.hr/gal *(kW.h/l)*	Temp.°F *(°C)* cool-ing med	Air dry bulb	Barom. inch Hg *(kPa)*
Maximum Power—7th (B3) Gear									
115.35 *(86.01)*	9026 *(40.15)*	4.79 *(7.71)*	2103	3.6	0.488 *(0.297)*	14.46 *(2.85)*	174 *(79)*	60 *(16)*	28.87 *(97.77)*
75% of Pull at Maximum Power—7th (B3) Gear									
91.31 *(68.09)*	6801 *(30.25)*	5.03 *(8.10)*	2184	2.6	0.557 *(0.339)*	12.65 *(2.49)*	174 *(79)*	63 *(17)*	28.85 *(97.70)*
50% of Pull at Maximum Power—7th (B3) Gear									
62.48 *(46.59)*	4531 *(20.15)*	5.17 *(8.32)*	2221	1.7	0.672 *(0.409)*	10.49 *(2.07)*	172 *(78)*	64 *(18)*	28.85 *(97.70)*
75% of Pull at Reduced Engine Speed—10th (C2) Gear									
91.87 *(68.51)*	6809 *(30.29)*	5.06 *(8.14)*	1650	2.5	0.496 *(0.302)*	14.22 *(2.80)*	171 *(77)*	64 *(18)*	28.84 *(97.66)*
50% of Pull at Reduced Engine Speed—10th (C2) Gear									
62.52 *(46.62)*	4530 *(20.15)*	5.18 *(8.33)*	1673	1.7	0.566 *(0.344)*	12.46 *(2.45)*	168 *(76)*	64 *(18)*	28.84 *(97.66)*

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

Dates of tests: March 26-April 21, 2009

Manufacturer: John Deere Tractor Works, 3500 East Donald Street, P.O. Box 270, Waterloo Ia, 50704-0270

FUEL, OIL and TIME: Fuel No. 2 Diesel **Specific gravity converted to 60°/60°F *(15°/15°C)*** 0.8470 **Fuel weight** 7.052 lbs/gal *(0.845 kg/l)* **Oil SAE** 15W-40 **API service classification** CJ-4 **Transmission and hydraulic lubricant** John Deere Hy-Gard fluid **Front axle lubricant** John Deere Hy-Gard fluid **Total time engine was operated:** 27.0 hours

ENGINE: Make John Deere Diesel **Type** six cylinder vertical with turbocharger and intercooler **Serial No.***PE6068L070716* **Crankshaft** lengthwise **Rated engine speed** 2100 **Bore and stroke** 4.19 x 5.00" *(106.5 mm x 127.0 mm)* **Compression ratio** 17.0 to 1 **Displacement** 414 cu in *(6788 ml)* **Starting system** 12 volt **Lubrication** pressure **Air cleaner** two paper elements and aspirator **Oil filter** one full flow cartridge **Oil cooler** engine coolant heat exchanger for crankcase oil, radiator for hydraulic and transmission oil **Fuel filter** one paper element and prestrainer **Fuel cooler** radiator for pump return fuel **Muffler** vertical **Cooling medium temperature control** 2 thermostats and variable speed fan

ENGINE OPERATING PARAMETERS: Fuel rate: 54.5 - 58.9 lb/h *(24.7 -26.7 kg/h)* **High idle:** 2225 - 2275 rpm **Turbo boost:** nominal 13.8-16.7 psi *(95-115 kPa)* as measured 15.1 psi *(104 kPa)*

CHASSIS: Type front wheel assist **Serial No.***RW7330H010314* **Tread width** rear 63.0" *(1601 mm)* to 93.8" *(2382 mm)* front 59.4" *(1510 mm)* to 88.0" *(2235 mm)* **Wheelbase** 104.3" *(2650 mm)* **Hydraulic control system** direct engine drive **Transmission** selective gear fixed ratio with partial (4) range operator controlled power shift **Nominal travel speeds mph *(km/h)*** first 1.62 *(2.60)* second 1.94 *(3.13)* third 2.33 *(3.75)* fourth 2.85 *(4.59)* fifth 3.42 *(5.51)* sixth 4.12 *(6.63)* seventh 4.93 *(7.94)* eighth 5.44 *(8.76)* ninth 6.05 *(9.73)* tenth 6.56 *(10.55)* eleventh 7.85 *(12.64)* twelfth 9.62 *(15.48)* thirteenth 11.29 *(18.17)* fourteenth 13.60 *(21.88)* fifteenth 16.28 *(26.20)* sixteenth 19.95 *(32.10)* reverse 1.68 *(2.71)*, 2.03 *(3.26)*, 2.43 *(3.91)*, 2.98 *(4.79)*, 3.57 *(5.75)*, 4.30 *(6.92)*, 5.15 *(8.29)*, 5.68 *(9.14)*, 5.65 *(10.15)*, 6.33 *(11.01)*, 7.59 *(13.19)*, 9.30 *(16.15)*, 10.83 *(18.96)*, 13.04 *(22.83)*, 15.62 *(27.34)*, 19.13 *(33.50)*

DRAWBAR PERFORMANCE

UNBALLASTED - FRONT DRIVE ENGAGED - 2100 RPM

MAXIMUM POWER IN SELECTED GEARS

Power Hp *(kW)*	Drawbar pull lbs *(kN)*	Speed mph *(km/h)*	Crank-shaft speed rpm	Slip %	Fuel Consumption lb/hp.hr *(kg/kW.h)*	Hp.hr/gal *(kW.h/l)*	Temp.°F *(°C)* cool-ing med	Air dry bulb	Barom. inch Hg *(kPa)*
				4th(A4) Gear					
89.16 *(66.49)*	12569 *(55.91)*	2.66 *(4.28)*	2178	13.2	0.581 *(0.353)*	12.14 *(2.39)*	175 *(79)*	57 *(14)*	28.94 *(98.00)*
				5th(B1)Gear					
102.16 *(76.18)*	12047 *(53.59)*	3.18 *(5.12)*	2162	11.1	0.547 *(0.333)*	12.88 *(2.54)*	175 *(80)*	60 *(16)*	28.95 *(98.04)*
				6th(B2) Gear					
112.12 *(83.61)*	10674 *(47.48)*	3.94 *(6.34)*	2102	5.7	0.504 *(0.306)*	14.01 *(2.76)*	175 *(79)*	61 *(16)*	28.86 *(97.73)*
				7th(B3)Gear					
115.35 *(86.01)*	9026 *(40.15)*	4.79 *(7.71)*	2103	3.6	0.488 *(0.297)*	14.46 *(2.85)*	174 *(79)*	60 *(16)*	28.87 *(97.77)*
				8th(C1) Gear					
113.15 *(84.38)*	7974 *(35.47)*	5.32 *(8.56)*	2102	3.0	0.500 *(0.304)*	14.11 *(2.78)*	173 *(78)*	59 *(15)*	28.87 *(97.77)*
				9th (B4) Gear					
111.86 *(83.42)*	7074 *(31.47)*	5.93 *(9.54)*	2099	2.4	0.505 *(0.307)*	13.96 *(2.75)*	173 *(78)*	58 *(14)*	28.87 *(97.77)*
				10th(C2)Gear					
111.06 *(82.81)*	6442 *(28.66)*	6.46 *(10.40)*	2102	2.1	0.508 *(0.309)*	13.88 *(2.73)*	174 *(79)*	61 *(16)*	28.86 *(97.73)*
				11th (C3) Gear					
111.54 *(83.17)*	5402 *(24.03)*	7.74 *(12.46)*	2098	1.9	0.501 *(0.305)*	14.06 *(2.77)*	174 *(79)*	62 *(17)*	28.86 *(97.73)*
				12th(C4) Gear					
105.40 *(78.60)*	4132 *(18.38)*	9.57 *(15.40)*	2098	1.6	0.533 *(0.324)*	13.24 *(2.61)*	173 *(78)*	63 *(17)*	28.86 *(97.73)*

Clutch wet multiple disc hydraulically actuated by foot pedal **Brakes** wet multiple disc hydraulically operated by two foot pedals that can be locked together **Steering** hydrostatic **Power take-off** 540 rpm at 1987 engine rpm or 1000 rpm at 1995 engine rpm **Unladen tractor mass** 13360 lb *(6060 kg)*

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 122°F *(50°C)*. This tractor did not meet the manufacturer's 3 point lift claims of 8800 lb *(3992 kg)*, with 80 mm cylinders, and 9950 lb *(4413 kg)*, with 85 mm cylinders, when tested in the category IIIN configuration. The performance figures on this summary were taken from a test conducted under the OECD Code II test code procedure.

We, the undersigned, certify that this is a true and correct report of official Tractor Test No. **1952**, Nebraska Summary 634, July 30, 2009.

Roger M. Hoy
Director

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

TRACTOR SOUND LEVEL WITH CAB	Front Wheel Drive Engaged dB(A)	Disengaged dB(A)
At no load in 6th (B2) gear	68.5	68.6
Transport speed - no load - 16th (D4) gear		71.1
Bystander in 16th (D4) gear		83.7

TIRES, BALLAST AND WEIGHT	With Ballast	Without Ballast
Rear Tires - No., size, ply & psi*(kPa)*	Two 480/80R42;***;16*(110)*	Two 480/80R42;***;12*(85)*
Ballast - Liquid (total)	None	None
- Cast Iron (total)	2500 lb*(1134 kg)*	None
Front Tires - No., size, ply & psi*(kPa)*	Two 380/85R30;***;16*(110)*	Two 380/85R30;***;10*(70)*
Ballast - Liquid (total)	None	None
- Cast Iron (total)	1600 lb *(726 kg)*	None
Height of Drawbar	22.0 in *(560 mm)*	21.5 in *(545 mm)*
Static Weight with operator - Rear	10660 lb *(4835 kg)*	8650 lb *(3923 kg)*
- Front	6975 lb *(3164 kg)*	4885 lb *(2216 kg)*
- Total	17635 lb *(7999 kg)*	13535 lb *(6139 kg)*

DRAWBAR PERFORMANCE
UNBALLASTED - FRONT DRIVE ENGAGED - 1750 RPM
MAXIMUM POWER IN SELECTED GEARS

Power Hp *(kW)*	Drawbar pull lbs *(kN)*	Speed mph *(km/h)*	Crank-shaft speed rpm	Slip %	Fuel Consumption lb/hp.hr *(kg/kW.h)*	Hp.hr/gal *(kW.h/l)*	Temp.°F*(°C)* cool-ing med	Air dry bulb	Barom. inch Hg *(kPa)*
				4th(A4) Gear					
89.67 *(66.87)*	12643 *(56.24)*	2.66 *(4.28)*	2177	13.2	0.581 *(0.354)*	12.13 *(2.39)*	175 *(79)*	57 *(14)*	28.94 *(98.00)*
				5th(B1)Gear					
101.81 *(75.92)*	12032 *(53.52)*	3.17 *(5.11)*	2162	11.3	0.550 *(0.335)*	12.82 *(2.52)*	175 *(79)*	60 *(16)*	28.95 *(98.04)*
				6th(B2)Gear					
113.43 *(84.58)*	11861 *(52.76)*	3.59 *(5.77)*	2002	9.8	0.506 *(0.308)*	13.93 *(2.74)*	176 *(80)*	62 *(17)*	28.95 *(98.04)*
				7th(B3)Gear					
121.53 *(90.63)*	11749 *(52.26)*	3.88 *(6.24)*	1769	7.1	0.478 *(0.291)*	14.76 *(2.91)*	175 *(80)*	60 *(16)*	28.87 *(97.77)*
				8th(C1)Gear					
122.84 *(91.60)*	10583 *(47.08)*	4.35 *(7.00)*	1753	4.6	0.472 *(0.287)*	14.94 *(2.94)*	175 *(79)*	60 *(16)*	28.87 *(97.77)*
				9th(B4)Gear					
122.42 *(91.29)*	9409 *(41.85)*	4.88 *(7.85)*	1752	3.8	0.474 *(0.288)*	14.89 *(2.93)*	174 *(79)*	55 *(13)*	28.87 *(97.77)*
				10th(C2)Gear					
122.03 *(91.00)*	8597 *(38.24)*	5.32 *(8.57)*	1754	3.3	0.476 *(0.289)*	14.83 *(2.92)*	175 *(79)*	62 *(17)*	28.86 *(97.73)*
				11th(C3)Gear					
122.87 *(91.62)*	7179 *(31.93)*	6.42 *(10.33)*	1750	2.6	0.471 *(0.287)*	14.96 *(2.95)*	175 *(80)*	62 *(17)*	28.86 *(97.73)*
				12th(C4)Gear					
120.11 *(89.57)*	5606 *(24.94)*	8.04 *(12.93)*	1753	1.7	0.482 *(0.293)*	14.64 *(2.88)*	176 *(80)*	63 *(17)*	28.85 *(97.70)*

DRAWBAR PERFORMANCE

BALLASTED - FRONT DRIVE ENGAGED - 1750 RPM

MAXIMUM POWER IN SELECTED GEARS

Power Hp *(kW)*	Drawbar pull lbs *(kN)*	Speed mph *(km/h)*	Crank-shaft speed rpm	Slip %	Fuel Consumption lb/hp.hr *(kg/kW.h)*	Hp.hr/gal *(kW.h/l)*	Temp.°F *(°C)* cool-ing med	Air dry bulb	Barom. inch Hg *(kPa)*
				3rd(A3) Gear					
89.16	15703	2.13	2179	13.9	0.577	12.21	175	54	29.07
(66.49)	*(69.85)*	*(3.43)*			*(0.351)*	*(2.41)*	*(80)*	*(12)*	*(98.44)*
				4th(A4) Gear					
106.10	14956	2.66	2131	9.0	0.535	13.18	175	55	29.06
(79.12)	*(66.53)*	*(4.28)*			*(0.325)*	*(2.60)*	*(79)*	*(13)*	*(98.41)*
				5th(B1) Gear					
116.30	14637	2.98	1988	8.8	0.495	14.24	175	57	29.06
(86.73)	*(65.11)*	*(4.80)*			*(0.301)*	*(2.81)*	*(80)*	*(14)*	*(98.41)*
				6th(B2) Gear					
119.87	14002	3.21	1752	7.6	0.486	14.52	177	60	29.06
(89.39)	*(62.28)*	*(5.17)*			*(0.295)*	*(2.86)*	*(80)*	*(16)*	*(98.41)*
				7th(B3) Gear					
124.49	11796	3.96	1753	4.5	0.469	15.04	175	62	29.05
(92.84)	*(52.47)*	*(6.37)*			*(0.285)*	*(2.96)*	*(79)*	*(17)*	*(98.37)*
				8th(C1) Gear					
122.56	10458	4.39	1749	3.8	0.476	14.82	177	64	29.04
(91.39)	*(46.52)*	*(7.07)*			*(0.289)*	*(2.92)*	*(80)*	*(18)*	*(98.34)*
				9th(B4) Gear					
122.07	9263	4.94	1752	3.4	0.475	14.84	177	63	29.05
(91.03)	*(41.21)*	*(7.95)*			*(0.289)*	*(2.92)*	*(81)*	*(17)*	*(98.37)*
				10th(C2) Gear					
121.51	8505	5.36	1752	3.1	0.479	14.72	179	66	29.04
(90.61)	*(37.83)*	*(8.62)*			*(0.291)*	*(2.90)*	*(82)*	*(19)*	*(98.34)*
				11th(C3) Gear					
121.34	7036	6.47	1750	2.4	0.479	14.71	178	67	29.03
(90.48)	*(31.30)*	*(10.41)*			*(0.292)*	*(2.90)*	*(81)*	*(19)*	*(98.31)*
				12th(C4) Gear					
117.50	5519	7.98	1751	1.8	0.493	14.32	179	68	29.03
(87.62)	*(24.55)*	*(12.85)*			*(0.300)*	*(2.82)*	*(82)*	*(20)*	*(98.31)*

DRAWBAR PERFORMANCE

BALLASTED - FRONT DRIVE DISENGAGED

FUEL CONSUMPTION CHARACTERISTICS

Power Hp *(kW)*	Drawbar pull lbs *(kN)*	Speed mph *(km/h)*	Crank-shaft speed rpm	Slip %	Fuel Consumption lb/hp.hr *(kg/kW.h)*	Fuel Consumption Hp.hr/gal *(kW.h/l)*	Temp.°F *(°C)* cool-ing med	Air dry bulb	Barom. inch Hg *(kPa)*
Maximum Power—7th (B3) Gear									
112.91 *(84.20)*	9002 *(40.04)*	4.70 *(7.57)*	2098	6.0	0.503 *(0.306)*	14.02 *(2.76)*	175 *(79)*	62 *(17)*	29.05 *(98.37)*
75% of Pull at Maximum Power—7th (B3) Gear									
90.01 *(67.12)*	6752 *(30.03)*	5.00 *(8.05)*	2183	4.0	0.574 *(0.349)*	12.29 *(2.42)*	173 *(78)*	68 *(20)*	29.02 *(98.27)*
50% of Pull at Maximum Power—7th (B3) Gear									
61.75 *(46.05)*	4510 *(20.06)*	5.13 *(8.26)*	2220	2.9	0.685 *(0.417)*	10.30 *(2.03)*	172 *(78)*	69 *(21)*	29.01 *(98.24)*
75% of Pull at Reduced Engine Speed—10th (C2) Gear									
90.14 *(67.22)*	6766 *(30.10)*	5.00 *(8.04)*	1637	4.0	0.512 *(0.311)*	13.79 *(2.72)*	174 *(79)*	69 *(21)*	29.01 *(98.24)*
50% of Pull at Reduced Engine Speed—10th (C2) Gear									
61.47 *(45.84)*	4504 *(20.04)*	5.12 *(8.24)*	1668	2.6	0.575 *(0.350)*	12.26 *(2.41)*	168 *(76)*	69 *(21)*	29.01 *(98.24)*

MAXIMUM POWER IN SELECTED GEARS

5th(B1) Gear									
95.07 *(70.90)*	11236 *(49.98)*	3.17 *(5.11)*	2172	11.5	0.562 *(0.342)*	12.54 *(2.47)*	174 *(79)*	56 *(13)*	29.06 *(98.41)*
6th(B2) Gear									
108.05 *(80.58)*	10599 *(47.15)*	3.82 *(6.15)*	2103	7.9	0.525 *(0.320)*	13.42 *(2.64)*	175 *(79)*	58 *(14)*	29.06 *(98.41)*
7th(B3) Gear									
112.91 *(84.20)*	9002 *(40.04)*	4.70 *(7.57)*	2098	6.0	0.503 *(0.306)*	14.02 *(2.76)*	175 *(79)*	62 *(17)*	29.05 *(98.37)*
8th(C1) Gear									
110.20 *(82.18)*	7870 *(35.01)*	5.25 *(8.45)*	2100	5.0	0.514 *(0.313)*	13.71 *(2.70)*	175 *(79)*	64 *(18)*	29.04 *(98.34)*
9th(B4) Gear									
108.85 *(81.17)*	6946 *(30.90)*	5.88 *(9.46)*	2103	3.8	0.521 *(0.317)*	13.53 *(2.66)*	174 *(79)*	63 *(17)*	29.05 *(98.37)*
10th(C2) Gear									
108.86 *(81.18)*	6369 *(28.33)*	6.41 *(10.31)*	2102	3.0	0.519 *(0.316)*	13.59 *(2.68)*	175 *(79)*	65 *(18)*	29.04 *(98.34)*
11th(C3) Gear									
109.47 *(81.63)*	5312 *(23.63)*	7.73 *(12.44)*	2103	2.6	0.516 *(0.314)*	13.68 *(2.69)*	174 *(79)*	66 *(19)*	29.03 *(98.31)*
12th(C4) Gear									
102.61 *(76.52)*	4034 *(17.94)*	9.54 *(15.35)*	2103	1.7	0.552 *(0.336)*	12.78 *(2.52)*	175 *(80)*	67 *(19)*	29.03 *(98.31)*

HYDRAULIC PERFORMANCE

CATEGORY: II, IIIN
Quick Attach: No
OECD Static test

		80 mm	85 mm
Cylinder size:			
Maximum force exerted through whole range:	Category II	8872 lbs *(39.5 kN)*	10089 lbs *(44.9 kN)*
	Category IIIN	8297 lbs*(36.9 kN)*	9435 lbs *(42.0 kN)*

	17.5 GPM pump	29 GPM pump
i) Sustained pressure at compensator cutoff:	2930 psi *(202 bar)*	2976 psi *(205 bar)*
	two outlet sets combined	
ii) Pump delivery rate at minimum pressure and rated engine speed:	18.4 GPM*(69.6 l/min)*	30.6 GPM*(115.8 l/min)*
iii)Pump delivery rate at maximum hydraulic power:	18.3 GPM*(69.1 l/min)*	28.2 GPM*(106.7 l/min)*
Delivery pressure:	2731 psi *(188 bar)*	2662 psi *(184 bar)*
Power:	29.1 HP *(21.7 kW)*	43.8 HP *(32.7 kW)*
	single outlet set	
ii) Pump delivery rate at minimum pressure and rated engine speed:	18.1 GPM*(68.6 l/min)*	30.2 GPM *(114.3 l/min)*
iii)Pump delivery rate at maximum hydraulic power:	18.0 GPM*(68.2 l/min)*	29.9 GPM *(113.2 l/min)*
Delivery pressure:	2518 psi *(174 bar)*	2124 psi *(146 bar)*
Power:	26.5 HP *(19.7 kW)*	37.1 HP *(27.6 kW)*

THREE POINT HITCH PERFORMANCE (SAE static test)

Observed maximum pressure psi. *(bar)*	2990 *(206)*
Location:	lift cylinders
Hydraulic oil temperature: °F *(°C)*	149 *(65)*
Location:	hydraulic sump
Category:	II,IIIN
Quick attach:	No

System pressure 2545 psi *(176 Bar)*

Category II with lift cylinders 2 x 80 mm

Hitch point distance to ground level in. *(mm)*	8.0 *(204)*	15.4 *(391)*	22.4 *(569)*	29.1 *(739)*	36.0 *(915)*
Lift force on frame lb	15623	12654	11490	10597	9461
" " " " " " *(kN)*	*(69.5)*	*(56.3)*	*(51.1)*	*(47.1)*	*(42.1)*

Category II with lift cylinders 2 x 85 mm

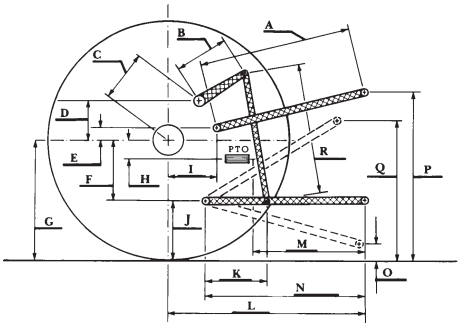
Hitch point distance to ground level in. *(mm)*	8.0 *(204)*	15.0 *(381)*	21.9 *(556)*	28.9 *(734)*	36.1 *(916)*
Lift force on frame lb	17586	14329	13007	11851	10685
" " " " " " *(kN)*	*(78.2)*	*(63.7)*	*(57.9)*	*(52.7)*	*(47.5)*

Category IIIN with lift cylinders 2 x 80 mm

Hitch point distance to ground level in. *(mm)*	7.9 *(201)*	16.2 *(411)*	24.0 *(610)*	32.0 *(813)*	40.0 *(1015)*
Lift force on frame lb	11943	10896	10184	9180	8197
" " " " " " *(kN)*	*(53.1)*	*(48.5)*	*(45.3)*	*(40.8)*	*(36.5)*

Category IIIN with lift cylinders 2 x 85 mm

Hitch point distance to ground level in. *(mm)*	8.0 *(202)*	16.1 *(409)*	24.0 *(610)*	32.0 *(813)*	40.0 *(1016)*
Lift force on frame lb	13573	12383	11518	10615	9239
" " " " " " *(kN)*	*(60.4)*	*(55.1)*	*(51.2)*	*(47.2)*	*(41.1)*



HITCH DIMENSIONS AS TESTED—NO LOAD
Category II

	OECD test		SAE test	
	inch	*mm*	inch	*mm*
A	27.0	*685*	26.2	*665*
B	15.7	*400*	15.7	*400*
C	22.1	*562*	22.1	*562*
D	20.9	*531*	20.9	*531*
E	7.6	*194*	7.6	*194*
F	9.9	*250*	9.9	*250*
G	34.3	*870*	34.3	*870*
H	3.1	*80*	3.1	*80*
I	18.3	*465*	18.3	*465*
J	24.4	*620*	24.4	*620*
K	21.3	*542*	21.3	*542*
L	44.9	*1140*	44.9	*1140*
M	22.0	*560*	22.0	*560*
N	38.6	*980*	38.6	*980*
O	7.9	*200*	7.9	*200*
P	48.4	*1230*	43.4	*1103*
Q	34.4	*875*	34.4	*875*
R	36.2	*920*	36.2	*920*

JOHN DEERE 7330 DIESEL

Institute of Agriculture and Natural Resources
University of Nebraska–Lincoln