SUMMARY OF OECD TEST 2417—NEBRASKA SUMMARY 629 JOHN DEERE 6330 POWRQUAD PLUS DIESEL 16 SPEED

POWER TAKE-OFF PERFORMANCE

Power HP (kW)	Crank shaft speed	Gal/hr	lb/hp.hr	Hp.hr/gal	Mean Atmospheric
	rpm	(l/h)	(kg/kW.h)	(kW.h/l)	Conditions
	M	AXIMUM	POWER	AND FUEL	. CONSUMPTION
		Rated	Engine Sp	eed (PTO spe	ed-1042 rpm)
87.7	2300	5.47	0.436	16.04	
(65.4)		(20.69)	(0.265)	(3.16)	
		Stand	lard Power	Take-off Spee	ed (1000 rpm)
93.1	2208	5.60	0.421	16.61	
(69.4)		(21.20)	(0.256)	(3.27)	
			Maximu	m Power (1h	our)
100.8	1900	5.83	0.404	17.30	,
(75.2)		(22.07)	(0.246)	(3.41)	
VARYIN	G POWE	R AND F	UEL CON	SUMPTION	1
87.7	2300	5.47	0.436	16.04	Air temperature
(65.4)		(20.69)	(0.265)	(3.16)	1
76.4	2360	5.07	0.464	15.08	- 64°F(19°C)
(57.0)		(19.18)	(0.282)	(2.97)	
58.2	2389	4.29	0.516	13.56	- Relative humidity
(43.4)		(16.25)	(0.314)	(2.67)	
39.4	2429	3.53	0.626	11.17	40%
(29.4)		(13.37)	(0.381)	(2.20)	
20.0	2458	2.70	0.944	7.41	Barometer
(14.9)		(10.21)	(0.574)	(1.46)	
	2460	1.95			- 29.7" Hg(100.5 kPa)
		(7.40)			_

Maximum Torque -295 lb.-ft. (400 Nm) at 1500 rpm Maximum Torque rise - 47.1% Torque rise at 1800 engine rpm - 43%

DRAWBAR PERFORMANCE (Unballasted–Front Drive Engaged) FUEL CONSUMPTION CHARACTERISTICS

Power	Drawbar	Speed	Crank-	Slip	Fuel Con	sumption	Temp.	°F (°C)	Barom.
Нр	pull	mph	shaft	%	lb/hp.hr	Ĥp.hr/gal	cool-	Air	inch
(kW)	lbs	(km/h)	speed		(kg/kW.h)	(kW.h/l)	ing	dry	Hg
	(kN)		rpm				med	bulb	(kPa)
			Max	imum P	ower—7th (F	33)Gear			
79.9	6660	4.50	2300	4.0	0.480	14.57	176	57	29.4
(59.6)	(29.63)	(7.24)			(0.292)	(2.87)	(80)	(14)	(99.4)
		759	% of Pull	at Max	imum Powe	r—7th (B3) C	ear		
62.6	4980	4.71	2381	3.0	0.536	13.05	172	59	29.4
(46.7)	(22.16)	(7.59)			(0.326)	(2.57)	(78)	(15)	(99.4)
		50%	% of Pull	at Max	imum Powe	r—7th (B3) C	ear		
42.6	3295	4.85	2421	1.9	0.641	10.91	169	59	29.4
(31.8)	(14.66)	(7.80)			(0.390)	(2.15)	(76)	(15)	(99.4)
		75% of	f Pull at	Reduce	d Engine Sp	oeed—8th (C	1) Gear		
62.5	4965	4.72	2091	2.9	0.508	13.76	172	61	29.4
(46.6)	(22.08)	(7.60)			(0.309)	(2.71)	(78)	(16)	(99.4)
		50% o	f Pull at	Reduce	d Engine Sp	eed—8th (C	1) Gear		
42.6	3310	4.83	2116	1.7	0.586	11.94	172	59	29.4
(31.8)	(14.72)	(7.78)			(0.356)	(2.35)	(78)	(15)	(99.4)

Location of tests: DLG Test Centre, Technology and Farm inputs, Max-Eyth-Weg 1, D-64823 Gross-Umstadt, Germany

Dates of tests: March, 2007

Manufacturer: Deere & Company, Moline, Illinois, USA

FUEL and OIL: Fuel No. 2 Diesel **Specific gravity converted to 60°/60° F** (15°/15°C) 0.840 **Fuel weight** 6.99 lbs/gal (0.838 kg/l) **Oil SAE** 10W-40 **API service classification** CF-4 **Transmission and hydraulic lubricant** John Deere Hy-Gard II fluid **Front axle lubricant** SAE 80W90.

ENGINE: Make John Deere Diesel Type four cylinder vertical with turbocharger and intercooler Serial No. L006366 Crankshaft lengthwise Rated engine speed 2300 Bore and stroke 4.19" x 5.00" (106.5 mm x 127.0 mm) Compression ratio 16.7 to 1 Displacement 276 cu in (4525 ml) Starting system 12 volt Lubrication pressure Air cleaner two paper elements 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 Muffler underhood Exhaust vertical Cooling medium temperature control thermostat and variable speed fan

CHASSIS: Type front wheel assist Serial No. 519016 Tread width rear 56.9" (1446 mm) to 75.4" (1916 mm) front 59.9" (1522 mm) to 79.3" (2014 mm) Wheel base 94.5" (2400 mm) Hydraulic control system direct engine drive Transmission selective gear fixed ratio with partial (4) range operator controlled powershift Nominal travel speeds mph (*km/h*) first 1.60 (2.57) second 1.92 (3.09) third 2.30 (3.70) fourth 2.81 (4.53) fifth 3.20 (5.15) sixth 3.85 (6.20) seventh 4.61 (7.42) eighth 5.26 (8.46) ninth 5.65 (9.09) tenth 6.33 (10.19) eleventh 7.58 (12.20) twelfth 9.29 (14.95) thirteenth 10.83 (17.43) fourteenth 13.04 (20.98) fifteenth 15.62 (25.13) sixteenth 19.13 (30.78) reverse 1.67(2.68), 2.01(3.23), 2.40 (3.86), 2.94 (4.73), 3.34 (5.37), 4.02 (6.47), 4.82 (7.75), 5.49 (8.84), 5.90 (9.49), 6.61 (10.64), 7.92 (12.74), 6.69 (15.60), 11.31 (18.20), 13.61 (21.90), 16.30 (26.23), 19.97 (32.13) Clutch multiple wet disc hydraulically operated by foot pedal Brakes wet disc hydraulically operated by two foot pedals which can be locked together Steering hydrostatic Power take-off 540 rpm at 2143 engine rpm or 1000 rpm at 2208 engine rpm. Unladen tractor mass 10515 lb (4770 kg)

DRAWBAR PERFORMANCE (Unballasted–Front Drive Engaged) MAXIMUM POWER IN SELECTED GEARS

Power	Drawbar	Speed	Crank-	Slip	Fuel Con	sumption	Temp	.°F(°C)	Barom.
Нр	pull	mph	shaft	%	lb/hp.hr	Hp.hr/gal	cool-	Air	inch
(kW)	lbs	(km/h)	speed		(kg/kW.h)	(kW.h/l)	ing	dry	Hg
	(kN)		rpm				med	bulb	(kPa)
				5tl	h (B1) Gear				
76.0	11065	2.58	2137	15.0	0.524	13.35	169	50	30.3
(56.7)	(49.21)	(4.15)			(0.319)	(2.63)	(76)	(10)	(102.5)
				6t]	h (B2) Gear				
82.5	10995	2.81	1903	13.3	0.490	14.26	176	48	29.4
(61.5)	(48.91)	(4.53)			(0.298)	(2.81)	(80)	(9)	(99.6)
				7tl	h (B3) Gear				
88.9	9285	3.59	1900	7.6	0.464	15.08	179	48	29.5
(66.3)	(41.30)	(5.78)			(0.282)	(2.97)	(82)	(9)	(99.8)
				8tl	n(C1)Gear				
89.0	7980	4.18	1901	5.2	0.462	15.13	179	50	29.5
(66.4)	(35.50)	(6.73)			(0.281)	(2.98)	(82)	(10)	(99.8)
				9tl	h (B4) Gear				
89.0	7385	4.52	1901	4.5	0.464	15.08	179	50	29.5
(66.4)	(32.84)	(7.28)			(0.282)	(2.97)	(82)	(10)	(99.9)
				10t	h (C2) Gear				
90.4	6625	5.12	1902	3.8	0.455	15.38	178	50	29.4
(67.4)	(29.47)	(8.23)			(0.277)	(3.03)	(81)	(10)	(99.7)
				111	h(C3)Gear				
91.3	5540	6.18	1901	3.1	0.451	15.50	176	50	29.4
(68.1)	(24.64)	(9.95)			(0.274)	(3.05)	(80)	(10)	(99.6)
				19t	h (C4) Gear				
88.9	4365	7.64	1901	2.4	0.462	15.13	176	52	29.4
(66.3)	(19.42)	(12.29)			(0.281)	(2.98)	(80)	(11)	(99.6)

	Front Wheel Drive		
TRACTOR SOUND LEVEL WITH CAB (IVT transmission)	Engaged dB(A)	Disengaged dB(A)	
At no load at 4.6 mph (7.5 km/h) (engine 1200 rpm)	67.9	67.7	
At no load at $4.6 \operatorname{mph}(7.5 \text{ km/h})$ (engine 2460 rpm)	72.0	71.7	
Transport		75.7	
Bystander		84.4	

	Front Wheel Drive		
TRACTOR SOUND LEVEL WITH CAB (PowrQuad transmission)	Engaged dB(A)	Disengaged dB(A)	
At no load in 7th(B3) Gear	71.4	71.4	
Maximum Sound level	72.3	73.3	
Bystander			

TIRES 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 460/85R38; **; 12(80) Two 340/85R28; **; 12(80) 20.5 in (520 mm) 6580 lb (2985 kg) 4100 lb (1860 kg) 10680 lb (4845 kg)

REPAIRS AND ADJUSTMENTS: No repairs or adjustments

REMARKS: All test results were determined from observed data obtained in accordance with official OECD test procedures. This tractor did not meet the manufacturer's claim of 71.0 dB(A) cab sound level. The performance results on this summary were taken from OECD tests conducted under the Code II Test Code procedure.

We, the undersigned, certify that this is a true summary of data from OECD Report No. 2417, Nebraska Summary 629, February 15, 2009.

Roger M. Hoy Director

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

This vehicle is equipped with an electronically controlled engine Power management system that monitors and boosts engine power output in certain circumstances. This is achieved by electronically changing the characteristics of the engine power-speed curve. The engine Power management function ("boosted" power level) becomes active in the higher transmission gears (16th and above) and for road transport applications. The system is also activated when power transfer through the PTO exceeds a preset level (and forward speed exceeds 0.5 km/h), for mobile PTO driven implement applications. An overide system is provided to enable PTO operations at the "boosted" power level while the vehicle is stationary for test purposes. The results of of this PTO output test are presented below.

Power HP (kW)	Crank shaft speed rpm	$\operatorname{Gal/hr}_{(l/h)}$	lb/hp.hr (kg/kW.h)	Hp.hr/gal (kW.h/l)	Mean Atmospheric Conditions
	MAX	KIMUM	POWER	AND FUEI	L CONSUMPTION
		Rated	Engine Spe	ed—(PTO spee	ed—1042 rpm)
98.8	2300	5.88	0.416	16.80	
(73.7)		(22.26)	(0.253)	(3.31)	
		Stand	dard Power'	Take-off Speed	d - (1000 rpm)
101.9	2208	5.95	0.408	17.13	-
(76.0)		(22.53)	(0.248)	(3.37)	
			Maxim	um Power (1 ho	our)
105.0	2000	5.96	0.397	17.61	
(78.3)		(22.57)	(0.242)	(3.47)	
RYING	POWER	R AND F	UEL CON	SUMPTION	
98.8	2300	5.88	0.416	16.80	Airtemperature
(73.7)		(22.26)	(0.253)	(3.31)	*
86.5	2374	5.54	0.447	15.63	64°F(18°C)
(64.5)		(20.97)	(0.272)	(3.08)	
65.6	2400	4.61	0.492	14.21	Relative humidity
(48.9)		(17.48)	(0.299)	(2.80)	-
44.5	2433	3.78	0.594	11.78	35%
(33.2)		(14.32)	(0.361)	(2.32)	
22.5	2458	2.82	0.875	8.00	Barometer
(16.8)		(10.66)	(0.532)	(1.58)	
	9460	2.00			29.6"Hg (100.2kPa)
	2400				0.

POWER TAKE-OFF PERFORMANCE

Maximum Torque rise - 30.4% Torque rise at 1800 rpm - 30%

HYDRAULIC PERFORMANCE

CATEGORY: II	
Quick Attach: none	
OECD Static test	
Maximum force exerted through whole range:	4450 lbs (19.8 kN) (70 mm cylinders
	6398 lbs (28.5 kN) (80 mm cylinders)
pump size:	17.5 GPM (66.3 l/min) 29.0 GPM (110.0 l/min)
i) Sustained pressure of the open relief valve:	3005 psi (207 bar) 3005 psi (207 bar)
ii) Pump delivery rate at minimum pressure:	18.9 GPM (71.7 l/min) 32.3 GPM(122.1 l/min)
iii) Pump delivery rate at maximum	
hydraulic power:	18.3 GPM (69.2 l/min) 28.9 GPM (109.3 l/min)
Delivery pressure:	2560 psi (176 bar) 2610 psi (180 bar)
Power:	27.3 HP (20.4 kW) 44.0 HP (32.8 kW)

THREE POINT HITCH PERFORMANCE(SAE static test)

Observed Maximum Pressure psi. (bar)	299	2990 <i>(206)</i> lift cylinder 149 <i>(65)</i>					
Location:	lift c						
Hydraulic oil temperature: °F(°C)	149						
Location:	hydr	raulic valve					
Category:	II						
Quick attach:	non	e					
Hitch point distance to ground level in. (a Lift force on frame lb	mm) 8.0(203) 5622	15.0(381) 6020 (26.8)	22.0 <i>(559)</i> 6106	29.0 <i>(737)</i> 5970	36.0 <i>(915)</i> 5356		
(RIN)	(23.0)	(20.8)	(27.2)	(20.0)	(23.8)		
System pressure - 248	0 ps1(171 Bar) - with lift cy	/linders2x8	30 mm			
Hitch point distance to ground level in.(n	ım) 8.0 (203)	16.4(417)	24.0(610)	31.9(810)	40.0(1016)		
Lift force on frame lb	15683	9566	9428	9212	8322		
"" "" " (kN)	(69.8)	(42.6)	(41.9)	(41.0)	(37.0)		

	OEC	D test	SAE	test
	inch	mm	inch	mm
А	25.8	655	24.4	620
В	12.6	320	12.6	320
С	20.0	507	20.0	507
D	23.9	475	23.9	475
E	9.7	245	9.7	245
F	8.7	220	8.7	220
G	32.3	820	32.3	820
Н	4.9	125	4.9	125
Ι	17.6	448	17.6	448
T	23.6	600	23.6	600
K	19.8	502	19.8	502
L	42.3	1076	42.3	1076
Μ	21.5	546	21.5	546
Ν	37.2	945	37.2	945
0	7.9	200	7.9	200
Р	47.6	1210	42.6	1083
Q	34.6	880	34.6	880
R	31.3	795	31.3	795

