SUMMARY OF OECD TEST 3083 - NEBRASKA SUMMARY 1142
JOHN DEERE 6130R POWRQUAD-PLUS DIESEL
24 SPEED

POWER TAKE-OFF PERFORMANCE

Power HP *(kW)*	Crank shaft speed rpm	Diesel Consumption Gal/hr *(l/h)*	lb/hp.hr *(kg/kW.h)*	D.E.F. Consumption Hp.hr/gal *(kW.h/l)*	D.E.F. Consumption Gal/hr *(l/h)*	Mean Atmospheric Conditions
MAXIMUM POWER AND FUEL CONSUMPTION						
Rated Engine Speed—(PTO speed—1070 rpm)						
111.7 *(83.3)*	2100	6.94 *(26.25)*	0.436 *(0.265)*	16.09 *(3.17)*	0.14 *(0.54)*	Fuel used during the active exhaust regeneration - 0.6 gal *(2.3 l)* (see Note1, p.2)
Standard Power Take-off Speed (1000 rpm)						
122.3 *(91.2)*	1962	7.20 *(27.26)*	0.413 *(0.251)*	16.98 *(3.35)*	0.17 *(0.65)*	
Maximum Power (1 hour)						
125.3 *(93.5)*	1900	7.28 *(27.56)*	0.407 *(0.247)*	17.22 *(3.39)*	0.15 *(0.58)*	
VARYING POWER AND FUEL CONSUMPTION						
111.7 *(83.3)*	2100	6.94 *(26.25)*	0.436 *(0.265)*	16.09 *(3.17)*	0.14 *(0.54)*	Air temperature
95.9 *(71.5)*	2122	6.29 *(23.80)*	0.459 *(0.279)*	15.26 *(3.01)*	0.13 *(0.49)*	68°F *(20°C)*
72.5 *(54.0)*	2137	5.36 *(20.30)*	0.517 *(0.314)*	13.53 *(2.67)*	0.08 *(0.31)*	Relative humidity
48.8 *(36.4)*	2161	4.36 *(16.50)*	0.627 *(0.381)*	11.19 *(2.20)*	0.06 *(0.24)*	45%
24.5 *(18.3)*	2177	3.30 *(12.50)*	0.942 *(0.573)*	7.43 *(1.46)*	0.05 *(0.20)*	Barometer
-- --	2198	2.14 *(8.10)*	-- --	-- --	0.06 *(0.22)*	30.1" Hg *(102.0 kPa)*

Maximum torque - 401 lb.-ft. *(544 Nm)* at 1600 rpm
Maximum torque rise - 43.5%
Torque rise at 1700 engine rpm - 35%
Power increase at 1900 engine rpm - 12.2%

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)*	D.E.F. Consumption lb/hp.hr *(kg/kW.h)*	Temp.°F*(°C)* cool-ing med	Air dry bulb	Barom. inch Hg *(kPa)*
Power at Rated Engine Speed—10th (C2) Gear										
104.5 *(77.9)*	7400 *(32.91)*	5.30 *(8.52)*	2099	3.9	0.473 *(0.288)*	14.67 *(2.89)*	0.012 *(0.007)*	180 *(82)*	66 *(19)*	29.4 *(99.5)*
75% of Pull at Rated Engine Speed—10th (C2) Gear										
82.2 *(61.3)*	5530 *(24.60)*	5.57 *(8.97)*	2188	3.0	0.538 *(0.328)*	12.88 *(2.54)*	0.010 *(0.006)*	174 *(79)*	64 *(18)*	29.4 *(99.4)*
50% of Pull at Rated Engine Speed—10th (C2) Gear										
55.5 *(41.4)*	3670 *(16.33)*	5.67 *(9.13)*	2204	2.1	0.649 *(0.395)*	10.69 *(2.11)*	0.008 *(0.005)*	169 *(76)*	64 *(18)*	29.4 *(99.4)*
75% of Pull at Reduced Engine Speed—11th (C3) Gear										
82.2 *(61.3)*	5505 *(24.50)*	5.60 *(9.01)*	1832	2.8	0.459 *(0.279)*	15.13 *(2.98)*	0.018 *(0.011)*	172 *(78)*	63 *(17)*	29.4 *(99.4)*
50% of Pull at Reduced Engine Speed—11th (C3) Gear										
55.7 *(41.5)*	3665 *(16.30)*	5.69 *(9.16)*	1849	2.1	0.529 *(0.322)*	13.10 *(2.58)*	0.010 *(0.006)*	167 *(75)*	63 *(17)*	29.4 *(99.4)*

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

Dates of tests: October, 2017

Manufacturer: John Deere GmbH & Co., KG Mannheim Germany

CONSUMABLE Fluids: Fuel No. 2 Diesel **Specific gravity converted to 60°/60°F *(15°/15°C)*** 0.8408 **Fuel weight** 7.01 lbs/gal *(0.839 kg/l)* **Diesel Exhaust Fluid (DEF)** 32% aqueous urea solution **DEF weight** 9.071 lbs/gal *(1.087 kg/l)* **Oil SAE** 10W-30 **API service classification** CJ-4 **Transmission and hydraulic lubricant** John Deere Hy-Gard fluid **Front axle lubricant** John Deere Hy-Gard fluid

ENGINE: Make John Deere Diesel **Type** four cylinder vertical with two turbochargers, air to air intercooler and D.E.F. (diesel exhaust fluid) exhaust treatment **Serial No.** *CD4045U038056* **Crankshaft** lengthwise **Rated engine speed** 2100 **Bore and stroke** 4.19" x 5.00" *(106.5 mm x 127.0 mm)* **Compression ratio** 17.2 to 1 **Displacement** 276 cu in *(4525 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 **Exhaust** DOC (diesel oxidation catalyst)/DPF (diesel particulate filter) System and SCR(selective catalyst reduction) with a vertical muffler **Cooling medium temperature control** thermostat and variable speed fan

CHASSIS: Type front wheel assist **Serial No.***1L06130RHHK881958* **Tread width** rear 65.1 *(1654 mm)* to 104.3" *(2650 mm)* front 64.0" *(1625 mm)* to 83.4" *(2118 mm)* **Wheelbase** 101.6" *(2580 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 1.14 *(1.84)* second 1.38 *(2.22)* third 1.65 *(2.66)* fourth 2.03 *(3.26)* fifth 2.80 *(4.50)* sixth 3.37 *(5.42)* seventh 4.03 *(6.49)* eighth 4.56 *(7.34)* ninth 4.94 *(7.95)* tenth 5.49 *(8.83)* eleventh 6.57 *(10.58)* twelfth 7.48 *(12.04)* thirteenth 8.05 *(12.96)* fourteenth 9.00 *(14.49)* fifteenth 10.79 *(17.36)* sixteenth 12.15 *(19.56)* seventeenth 13.22 *(21.27)* eighteenth 14.63 *(23.55)* nineteenth 17.44 *(28.07)* twentieth 17.53 *(28.21)* twenty-first 21.11 *(33.97)* twenty-second 21.48 *(34.56)* twenty-third 25.15 *(40.48)* twenty-fourth 26.10 *(42.00)* (electronically limited)

DRAWBAR PERFORMANCE

UNBALLASTED - FRONT DRIVE ENGAGED - 1900 ENGINE 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)*	D.E.F. Consumption lb/hp.hr *(kg/kW.h)*	Temp.°F*(°C)* cool-ing med	Air dry bulb	Barom. inch Hg *(kPa)*
					5th (B1) Gear					
89.8 *(67.0)*	14030 *(62.40)*	2.40 *(3.87)*	2115	15.2	0.543 *(0.330)*	12.76 *(2.51)*	0.018 *(0.011)*	180 *(82)*	73 *(23)*	29.4 *(99.4)*
					6th (B2) Gear					
99.5 *(74.2)*	13920 *(61.92)*	2.68 *(4.31)*	1952	14.7	0.517 *(0.314)*	13.41 *(2.64)*	0.013 *(0.008)*	181 *(83)*	73 *(23)*	29.4 *(99.4)*
					7th (B3) Gear					
109.2 *(81.4)*	12295 *(54.68)*	3.33 *(5.36)*	1901	9.1	0.473 *(0.288)*	14.67 *(2.89)*	0.015 *(0.009)*	183 *(84)*	73 *(23)*	29.4 *(99.4)*
					8th (C1) Gear					
111.7 *(83.3)*	10850 *(48.27)*	3.86 *(6.21)*	1902	7.0	0.457 *(0.278)*	15.18 *(2.99)*	0.012 *(0.007)*	183 *(84)*	70 *(21)*	29.4 *(99.5)*
					9th(B4) Gear					
112.0 *(83.5)*	9925 *(44.15)*	4.23 *(6.81)*	1902	6.0	0.461 *(0.280)*	15.04 *(2.96)*	0.010 *(0.006)*	183 *(84)*	73 *(23)*	29.4 *(99.5)*
					10th (C2) Gear					
112.9 *(84.2)*	8925 *(39.70)*	4.74 *(7.63)*	1903	5.1	0.455 *(0.277)*	15.25 *(3.01)*	0.016 *(0.010)*	183 *(84)*	72 *(22)*	29.4 *(99.5)*
					11th(C3) Gear					
114.8 *(85.6)*	7520 *(33.44)*	5.73 *(9.22)*	1900	4.2	0.446 *(0.272)*	15.53 *(3.06)*	0.018 *(0.011)*	183 *(84)*	72 *(22)*	29.4 *(99.5)*
					12th(D1) Gear					
115.6 *(86.2)*	6595 *(29.34)*	6.57 *(10.57)*	1901	3.5	0.446 *(0.272)*	15.53 *(3.06)*	0.015 *(0.009)*	181 *(83)*	72 *(22)*	29.4 *(99.5)*
					13th (C4) Gear					
114.7 *(85.5)*	6055 *(26.94)*	7.10 *(11.42)*	1900	3.1	0.449 *(0.273)*	15.43 *(3.04)*	0.012 *(0.007)*	183 *(84)*	72 *(22)*	29.4 *(99.5)*
					14th(D2) Gear					
113.7 *(84.8)*	5360 *(23.84)*	7.95 *(12.80)*	1900	2.9	0.451 *(0.275)*	15.37 *(3.03)*	0.015 *(0.009)*	181 *(83)*	72 *(22)*	29.4 *(99.4)*
					*15th(D3) Gear					
118.0 *(88.0)*	4620 *(20.54)*	9.58 *(15.42)*	1903	2.4	0.448 *(0.272)*	15.48 *(3.05)*	0.012 *(0.007)*	181 *(83)*	72 *(22)*	29.4 *(99.4)*
					*17th (D4) Gear					
125.0 *(93.2)*	3950 *(17.57)*	11.87 *(19.09)*	1913	2.1	0.449 *(0.273)*	15.43 *(3.04)*	0.010 *(0.006)*	181 *(83)*	72 *(22)*	29.4 *(99.4)*

*Intelligent Power Management system activated

TRACTOR SOUND LEVEL WITH CAB	Front Wheel Drive Engaged dB(A)	Disengaged dB(A)
At no load in 8th (C1) gear	71.3	71.1
Transport speed - no load - 24th (F4) gear		71.7
Bystander		--

Horizontal distances of drawbar hitch point behind rear wheel axis - 33.5 in *(850 mm)*, 37.4 in,*(950 mm)*, 39.4 in *(1000 mm)*

TIRES AND WEIGHT	Tested Without Ballast
Rear Tires - No., size, ply & psi*(kPa)*	Two 600/65R38;***;12*(80)*
Front Tires - No., size, ply & psi*(kPa)*	Two 540/65R24;***;12*(80)*
Height of Drawbar	19.7 in *(500 mm)*
Static Weight with operator - Rear	7815 lb *(3545 kg)*
- Front	5635 lb *(2555 kg)*
- Total	13450 lb *(6100 kg)*

reverse 1.19 *(1.92)*, 1.44 *(2.32)*, 1.72 *(2.77)*, 2.11 *(3.40)*, 2.91 *(4.69)*, 3.51 *(5.65)*, 4.21 *(6.77)*, 4.75 *(7.65)*, 5.15 *(8.29)*, 5.73 *(9.22)*, 6.86 *(11.04)*, 7.80 *(12.56)*, 8.40 *(13.52)*, 9.94 *(15.12)*, 11.25 *(18.11)*, 12.68 *(20.41)*, 13.79 *(22.19)*, 15.27 *(24.58)*, 18.20 *(29.29)*, 18.29 *(29.44)*, 21.91 *(35.26)*,22.41 *(36.06)*, 26.25 *(42.24)*, 32.15 *(51.74)* **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 1967 engine rpm or 1000 rpm at 1962 engine rpm **Unladen tractor mass** 13285 lb *(6025 kg)*

REPAIRS AND ADJUSTMENTS: No repairs or adjustments.

NOTE 1: The manufacturer declares that the average time between active regenerations is 100 hours.

NOTE 2: This tractor has an engine control feature, I.P.M. (Intelligent Power Management) that allows the engine to run in a "boosted" mode, increased power level, at elevated drawbar travel speeds.

REMARKS: All test results were determined from observed data obtained in accordance with official OECD test procedures. The manufacturer's claim of 125 PTO Hp*(93 kW)*, with I.P.M. activated was not verified. The performance figures on this summary were taken from a test conducted under the OECD Code 2 test procedure.

We, the undersigned, certify that this is a true summary of data from OECD Report No. **3083,** Nebraska Summary 1142, June 11,2018.

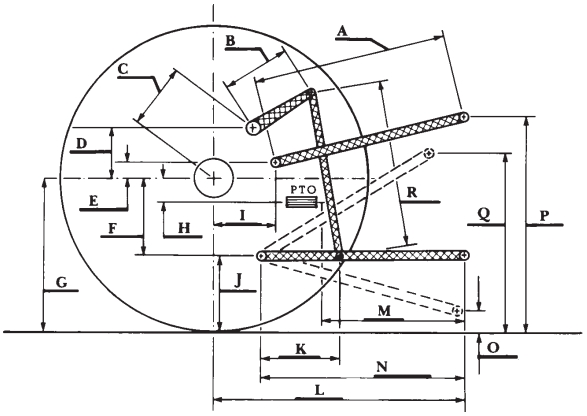
Roger M. Hoy
Director

M.F. Kocher
J.D. Luck
P.J. Jasa
Board of Tractor Test Engineers

HYDRAULIC PERFORMANCE WITH 45cc pump

CATEGORY: 3N
Quick Attach: No

Lift cylinders:	2 x 70 mm	2 x 80 mm
Maximum force exerted through whole range:	6880 lbs *(30.6 kN)*	8700 lbs *(38.7 kN)*
i) Sustained pressure at compensator cutoff:	2960 psi *(204 bar)*	
	two outlet sets combined	
ii) Pump delivery rate at minimum pressure:	30.1 GPM *(114.1 l/min)*	
iii)Pump delivery rate at maximum		
hydraulic power:	27.1 GPM *(102.7 l/min)*	
Delivery pressure:	2730 psi *(188 bar)*	
Power:	43.2 HP *(32.2 kW)*	
	single outlet set	
ii) Pump delivery rate at minimum pressure:	29.8 GPM *(112.7 l/min)*	
iii)Pump delivery rate at maximum		
hydraulic power:	28.7 GPM *(108.5 l/min)*	
Delivery pressure:	2190 psi *(151 bar)*	
Power:	36.6 HP *(27.3 kW)*	



HITCH DIMENSIONS AS TESTED—NO LOAD

	inch	*mm*
A	28.7	*730*
B	15.4	*390*
C	21.7	*552*
D	20.7	*525*
E	12.6	*320*
F	8.8	*224*
G	32.5	*825*
H	2.6	*65*
I	16.8	*427*
J	23.7	*601*
K	22.0	*560*
L	45.3	*1150*
M	24.4	*620*
N	40.0	*1015*
O	9.1	*230*
P	50.6	*1286*
Q	39.2	*995*
R	33.5	*850*

RECOMMENDED CITATION FORMAT:

NTTL.(2018). OECD tractor test 3083 for John Deere 6130R PowerQuad Plus Diesel. Lincoln, NE:Nebraska Tractor Test Laboratory. Retrieved from http://tractortestlab.unl.edu