

SUMMARY OF OECD TEST 3148 - NEBRASKA SUMMARY 1160

JOHN DEERE 6195M POWERQUAD DIESEL

20 SPEED

Chassis Serial numbers 1L06195Mxxx866041 and higher

POWER TAKE-OFF PERFORMANCE

Power HP (kW)	Crank shaft speed rpm	Diesel Consumption Gal/hr (l/h)	lb/hp.hr (kg/kW.h)	Hp.hr/gal (kW.l/l)	D.E.F. Consumption Gal/hr (l/h)	Mean Atmospheric Conditions
MAXIMUM POWER AND FUEL CONSUMPTION						
Rated Engine Speed—(PTO speed—1077 rpm)						
164.3 (122.5)	2100	9.93 (37.60)	0.421 (0.256)	16.55 (3.26)	0.21 (0.80)	Fuel used during the active exhaust regeneration - 1.08 gal(4.10 l) (see Note 1, p.2)
Standard Power Take-off Speed (1000 rpm)						
177.1 (132.1)	1950	10.22 (38.73)	0.402 (0.244)	17.31 (3.41)	0.24 (0.90)	
Maximum Power (1 hour)						
182.9 (136.4)	1700	10.07 (38.11)	0.383 (0.233)	18.17 (3.58)	0.29 (1.10)	

VARYING POWER AND FUEL CONSUMPTION

164.3 (122.5)	2100	9.93 (37.60)	0.421 (0.256)	16.55 (3.26)	0.21 (0.80)	Air temperature
143.1 (106.7)	2153	8.95 (33.85)	0.435 (0.265)	15.99 (3.15)	0.15 (0.55)	72°F (22°C)
108.8 (81.1)	2180	7.49 (28.37)	0.479 (0.292)	14.51 (2.86)	0.13 (0.50)	Relative humidity
73.4 (54.7)	2206	6.10 (23.10)	0.578 (0.352)	12.03 (2.37)	0.11 (0.40)	25%
37.1 (27.7)	2235	4.70 (17.78)	0.881 (0.536)	7.90 (1.56)	0.08 (0.30)	Barometer
--	2250	2.96 (11.20)	--	--	0.07 (0.25)	30.1" Hg (101.5 kPa)

Maximum torque - 598 lb.-ft. (810 Nm) at 1400 rpm
 Maximum torque rise - 45.5%
 Torque rise at 1700 engine rpm - 37%
 Power increase at 1700 engine rpm - 11.3%

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)	Hp.hr/gal (kW.l/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—7th (B3) Gear										
157.0 (117.1)	11670 (51.91)	5.05 (8.12)	2100	4.1	0.449 (0.273)	15.45 (3.04)	0.015 (0.007)	183 (84)	55 (13)	30.1 (101.8)
75% of Pull at Rated Engine Speed—7th (B3) Gear										
124.2 (92.6)	8755 (38.94)	5.32 (8.56)	2186	2.9	0.480 (0.292)	14.47 (2.85)	0.015 (0.006)	178 (81)	55 (13)	30.1 (101.8)
50% of Pull at Rated Engine Speed—7th (B3) Gear										
83.9 (62.6)	5810 (25.85)	5.42 (8.72)	2204	1.9	0.558 (0.340)	12.44 (2.45)	0.012 (0.007)	174 (79)	55 (13)	30.1 (101.8)
75% of Pull at Reduced Engine Speed—8th (C1) Gear										
124.3 (92.7)	8765 (38.99)	5.32 (8.56)	1979	2.9	0.459 (0.279)	15.13 (2.98)	0.008 (0.006)	180 (82)	57 (14)	30.0 (101.7)
50% of Pull at Reduced Engine Speed—8th (C1) Gear										
84.1 (62.7)	5815 (25.87)	5.42 (8.73)	1998	1.9	0.526 (0.320)	13.20 (2.60)	0.015 (0.007)	174 (79)	57 (14)	30.0 (101.7)

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

Dates of tests: March to April 2019

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

CONSUMABLE Fluids: Fuel No. 2 Diesel Specific gravity converted to 60°/60°F (15°/15°C) 0.8348 Fuel weight 6.96 lbs/gal (0.834 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** six cylinder vertical with turbocharger, air to air intercooler and D.E.F. (diesel exhaust fluid) exhaust treatment **Serial No.** *CD6068U093396* **Crankshaft** lengthwise **Rated engine speed** 2100 **Bore and stroke** 4.19" x 5.00" (106.5 mm x 127.0 mm) **Compression ratio** 16.7 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 **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.** *1L06195MPKK930914* **Tread width** rear 64.4" (1636 mm) to 80.2" (2036 mm) front 63.3" (1608 mm) to 88.3" (2244 mm) **Wheelbase** 110.2" (2800 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 1.73 (2.78) second 2.08 (3.35) third 2.49 (4.01) fourth 3.05 (4.91) fifth 3.66 (5.89) sixth 4.41 (7.09) seventh 5.28 (8.49) eighth 5.82 (9.37) ninth 6.46 (10.40) tenth 7.01 (11.28) eleventh 8.39 (13.51) twelfth 10.28 (16.55) thirteenth 10.78 (17.35) fourteenth 12.98 (20.89) fifteenth 15.55 (25.02) sixteenth 18.63 (29.98) seventeenth 19.05 (30.65) eighteenth 22.44 (36.11) nineteenth 24.85 (40.00) twentieth 24.85 (40.00) electronically limited reverse 1.80 (2.90), 2.17 (3.49), 2.60 (4.18), 3.18 (5.12), 3.82 (6.14), 4.60 (7.40), 5.51 (8.86), 6.08 (9.78), 6.74 (10.85), 7.31 (11.77), 8.76 (14.10), 10.73 (17.27), 11.25 (18.10), 13.55 (21.80), 16.22 (26.11), 19.44 (31.29), 19.87 (31.98), 23.41 (37.68), 24.85 (40.00), 24.85 (40.00) electronically limited

DRAWBAR PERFORMANCE

UNBALLASTED - FRONT DRIVE ENGAGED - 1700 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)
6th(B2) Gear										
148.3 (110.6)	17870 (79.48)	3.11 (5.01)	1744	14.8	0.469 (0.285)	14.83 (2.92)	0.015 (0.009)	189 (87)	57 (14)	30.1 (101.8)
7th(B3) Gear										
163.7 (122.1)	15355 (68.31)	4.00 (6.44)	1703	7.0	0.423 (0.257)	16.45 (3.24)	0.015 (0.009)	189 (87)	56 (13)	30.0 (101.7)
8th(C1) Gear										
165.2 (123.2)	13875 (61.72)	4.46 (7.18)	1704	5.2	0.418 (0.254)	16.65 (3.28)	0.013 (0.008)	185 (85)	56 (13)	30.0 (101.7)
9th(B4) Gear										
166.3 (124.0)	12490 (55.56)	4.99 (8.04)	1702	4.5	0.417 (0.254)	16.70 (3.29)	0.013 (0.008)	185 (85)	56 (13)	30.0 (101.7)
10th(C2) Gear										
167.4 (124.8)	11520 (51.25)	5.45 (8.77)	1701	3.8	0.414 (0.252)	16.80 (3.31)	0.013 (0.008)	187 (86)	56 (13)	30.0 (101.7)
11th(C3) Gear										
168.8 (125.9)	9580 (42.62)	6.61 (10.64)	1701	2.7	0.411 (0.250)	16.95 (3.34)	0.013 (0.008)	187 (86)	56 (13)	30.0 (101.7)
12th(C4) Gear										
166.6 (124.2)	7715 (34.31)	8.10 (13.03)	1700	2.5	0.417 (0.253)	16.70 (3.29)	0.013 (0.008)	187 (86)	56 (13)	30.0 (101.7)
13th(D1) Gear										
165.8 (123.6)	7290 (32.43)	8.53 (13.72)	1705	2.4	0.419 (0.255)	16.63 (3.28)	0.013 (0.008)	185 (85)	56 (13)	30.0 (101.7)
14th(D2) Gear										
165.2 (123.2)	6000 (26.70)	10.32 (16.61)	1706	2.0	0.420 (0.256)	16.57 (3.27)	0.013 (0.008)	187 (86)	56 (13)	30.0 (101.7)

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 1950 engine rpm **Unladen tractor mass** 16910 lb (7670 kg)

REPAIRS AND ADJUSTMENTS: No repairs or adjustments.

NOTE 1: The manufacturer declares that the average time between active regenerations is 50 hours.

NOTE 2: The performance data on this report applies to tractors with chassis serial numbers 1L06195Mxxx866041 and higher that have a single turbocharger.

REMARKS: All test results were determined from observed data obtained in accordance with official OECD test procedures. 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. **3148**, Nebraska Summary 1160, July 26, 2019.

Roger M. Hoy
Director

M.F. Kocher
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Board of Tractor Test Engineers

TRACTOR SOUND LEVEL WITH CAB	Front Wheel Drive	
	Engaged dB(A)	Disengaged dB(A)
At no load in 7th (B3) gear	68.3	69.2
Transport speed - no load - 20th (E4) gear	--	--
Bystander	--	--

Horizontal distance of drawbar hitch point behind rear wheel axis - 40.2" (1020 mm)

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 650/65R42;***;12(80)
Two 600/65R28;***;12(80)
20.5 in (520 mm)
10295 lb (4670 kg)
6780 lb (3075 kg)
17075 lb (7745 kg)

HYDRAULIC PERFORMANCE

CATEGORY: 3

Quick Attach: No

Lift cylinders:

2 x 85 mm

Maximum force exerted through whole range: 11510 lbs (51.2 kN)

i) Sustained pressure at compensator cutoff: 2960 psi (204 bar)

three outlet sets combined

ii) Pump delivery rate at minimum pressure: 30.3 GPM (114.9 l/min)

iii) Pump delivery rate at maximum

hydraulic power: 27.6 GPM (104.4 l/min)

Delivery pressure: 2795 psi (193 bar)

Power: 44.9 HP (33.5 kW)

single outlet set

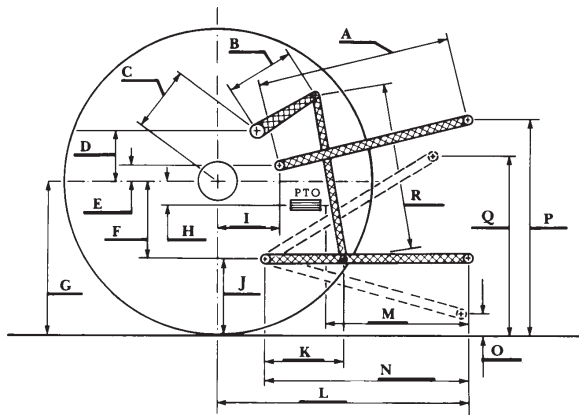
ii) Pump delivery rate at minimum pressure: 30.0 GPM (113.5 l/min)

iii) Pump delivery rate at maximum

hydraulic power: 28.5 GPM (108.0 l/min)

Delivery pressure: 2235 psi (154 bar)

Power: 37.1 HP (27.7 kW)



HITCH DIMENSIONS AS TESTED—NO LOAD

	inch	mm
A	29.7	755
B	16.1	410
C	24.6	624
D	23.8	605
E	7.4	189
F	10.8	275
G	36.4	925
H	6.5	165
I	21.8	555
J	25.6	650
K	25.6	650
L	50.3	1277
M	25.2	640
N	42.6	1082
O	9.1	230
P	52.6	1335
Q	40.2	1020
R	42.5	1080

RECOMMENDED CITATION FORMAT:

NTTL.(2019). OECD tractor test 3148 for John Deere 6195M PowerQuad Diesel.

Lincoln, NE:Nebraska Tractor Test Laboratory. Retrieved from <http://tractortestlab.unl.edu>