

SUMMARY OF OECD TEST 2793—NEBRASKA SUMMARY 916

MASSEY FERGUSON 6614 DYNA VT DIESEL

CONTINUOUSLY VARIABLE TRANSMISSION

POWER TAKE-OFF PERFORMANCE

Power HP (kW)	Crank shaft speed rpm	Diesel Consumption		D.E.F. Consumption		Mean Atmospheric Conditions
		Gal/hr (l/h)	lb/hp.hr (kg/kW.h)	Hp.hr/gal (kW.h/l)	Gal/hr (l/h)	
MAXIMUM POWER AND FUEL CONSUMPTION						
Rated Engine Speed—(PTO speed—1079 rpm)						
110.0 (82.0)	2198	6.79 (25.70)	0.431 (0.262)	16.19 (3.19)	0.23 (0.87)	
Standard Power Take-off Speed (1000 rpm)						
118.9 (88.7)	2035	6.98 (26.41)	0.409 (0.249)	17.05 (3.36)	0.31 (1.16)	
Maximum Power (1 hour)						
123.0 (91.7)	2002	7.08 (26.79)	0.402 (0.244)	17.36 (3.42)	0.30 (1.14)	

VARYING POWER AND FUEL CONSUMPTION						
110.0 (82.0)	2198	6.79 (25.70)	0.431 (0.262)	16.19 (3.19)	0.23 (0.87)	Air temperature
94.4 (70.4)	2220	5.97 (22.61)	0.442 (0.269)	15.80 (3.11)	0.20 (0.74)	68°F (20°C)
71.2 (53.1)	2231	4.81 (18.20)	0.471 (0.286)	14.81 (2.92)	0.16 (0.60)	Relative humidity
47.8 (35.6)	2241	3.69 (13.95)	0.538 (0.327)	12.96 (2.55)	0.07 (0.27)	38%
23.9 (17.8)	2250	2.61 (9.87)	0.761 (0.463)	9.17 (1.81)	---	Barometer
---	2258	1.74 (6.58)	---	---	---	29.6" Hg (100.4 kPa)

Maximum torque - 409 lb.-ft. (555 Nm) at 1300 rpm
 Maximum torque rise - 55.7%
 Torque rise at 1800 engine rpm - 37%
 Power increase at 2002 engine rpm - 11%

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)	Temp. °F (°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
Maximum Power—Turtle 8								
80.8 (60.2)	6105 (27.2)	4.96 (7.98)	2209	3.1	0.570 (0.347)	12.13 (2.39)	185 (85)	68 (20)
75% of Pull at Maximum Power—Turtle 8								
63.4 (47.3)	4855 (21.6)	4.90 (7.88)	2219	2.2	0.602 (0.366)	11.49 (2.26)	185 (85)	68 (20)
50% of Pull at Maximum Power—Turtle 8								
42.9 (32.0)	3280 (14.6)	4.90 (7.89)	2228	1.8	0.738 (0.449)	9.37 (1.85)	183 (84)	68 (20)
75% of Pull at Reduced Engine Speed—Turtle 12								
63.9 (47.6)	4880 (21.7)	4.91 (7.90)	1388	2.1	0.503 (0.306)	13.76 (2.71)	187 (86)	68 (20)
50% of Pull at Reduced Engine Speed—Turtle 12								
43.1 (32.1)	3270 (14.6)	4.94 (7.95)	1381	1.5	0.559 (0.340)	12.39 (2.44)	185 (85)	68 (20)

Location of tests: IRSTEA, Centre d'Antony, 1 rue Pierre-Gilles de Gennes CS 10030, Antony, France 92761

Dates of tests: August to September, 2013

Manufacturer: AGCO S.A. BP 307, Avenue Blaise Pascal, 60026 Beauvais, France

CONSUMABLE Fluids and OIL: Fuel No. 2 Diesel Specific gravity converted to 60°/60°F (15°/15°C) 0.838 Fuel weight 6.98 lbs/gal (0.836 kg/l) Diesel Exhaust Fluid (DEF) 32% aqueous urea solution DEF weight 9.08 lbs/gal (1.091 kg/l) Oil SAE 15W40 API service classification CJ-4 Transmission and hydraulic lubricant BP Terrac Tractan 9 10W/40 Front axle lubricant SAE 85W140 API GL-5

ENGINE: Make AGCO Power Diesel Type four cylinder vertical with turbocharger, air to air intercooler and SCR (selective catalyst reduction) exhaust treatment Serial No. X00325 Crankshaft lengthwise Rated engine speed 2200 Bore and stroke 4.252" x 5.276" (108.0 mm x 134.0 mm) Compression ratio 17.8 to 1 Displacement 299 cu in (4910 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 two paper cartridges Muffler underhood Exhaust vertical Cooling medium temperature control thermostat and variable speed fan

CHASSIS: Type front wheel assist Serial No. C 123 901 Tread width rear 52.8" (1340 mm) to 87.8" (2230 mm) front 52.8" (1340 mm) to 87.8" (2230 mm) Wheelbase 105.1" (2670 mm) Hydraulic control system direct engine drive Transmission CVT. A combination of mechanical and hydrostatic sections allow an infinite speed adjustment within the ranges noted. The transmission has two mechanical ranges. Nominal travel speeds mph (km/h) forward: Low range 0-18 (0-30), high range 0-25 (0-40) reverse: Low range 0-11 (0-17), high range 0-18 (0-30) Clutch a foot pedal controls the hydrostatic oil flow Brakes multiple wet disc hydraulically operated by two foot pedals that can be locked together Steering hydrostatic Power take-off 540 rpm at 2063 engine rpm or 1000 rpm at 2035 engine rpm Unladen tractor mass 15765 lb (7150 kg)

DRAWBAR PERFORMANCE

(Unballasted - Front Drive Engaged) 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)	Consumption Hp.hr/gal (kW.h/l)	Temp. ^o F(°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
81.0 (60.4)	13715 (61.0)	2.21 (3.56)	2145	14.4	Turtle 3.5 0.587 (0.357)	11.78 (2.32)	183 (84)	64 (18)	30.1 (102.0)
91.4 (68.2)	11925 (53.0)	2.87 (4.62)	2019	9.4	Turtle 4.5 0.538 (0.327)	12.85 (2.53)	183 (84)	64 (18)	30.1 (102.0)
95.2 (71.0)	8590 (38.2)	4.16 (6.69)	1998	6.1	Turtle 6.5 0.512 (0.311)	13.51 (2.66)	185 (85)	64 (18)	30.1 (102.0)
96.6 (72.0)	7600 (33.8)	4.77 (7.67)	2009	5.0	Turtle 8 0.501 (0.305)	13.81 (2.72)	185 (85)	66 (19)	30.1 (102.0)
96.2 (71.8)	5765 (25.6)	6.25 (10.06)	1997	3.8	Turtle 10 0.510 (0.311)	13.55 (2.67)	187 (86)	68 (20)	30.1 (102.0)
94.3 (70.3)	4970 (22.1)	7.11 (11.45)	2003	2.3	Turtle 12 0.513 (0.312)	13.48 (2.65)	187 (86)	68 (20)	30.1 (102.0)
89.2 (66.5)	3885 (17.3)	8.61 (13.86)	2007	2.0	Turtle 14 0.544 (0.331)	12.73 (2.51)	185 (85)	70 (21)	30.1 (102.0)
92.2 (68.8)	6125 (27.2)	5.64 (9.08)	2002	4.2	Rabbit 9 0.532 (0.323)	13.01 (2.56)	187 (86)	73 (23)	30.1 (102.0)
90.6 (67.6)	4505 (20.0)	7.55 (12.15)	2006	2.2	Rabbit 12 0.535 (0.326)	12.92 (2.55)	187 (86)	75 (24)	30.1 (102.0)
89.2 (66.5)	3665 (16.3)	9.12 (14.69)	2009	2.0	Rabbit 15 0.545 (0.331)	12.70 (2.50)	187 (86)	77 (25)	30.1 (102.0)
87.7 (65.4)	3250 (14.5)	10.12 (16.29)	1999	1.5	Rabbit 17 0.563 (0.342)	12.29 (2.42)	189 (87)	77 (25)	30.1 (102.0)

REPAIRS AND ADJUSTMENTS: No repairs or adjustments.

NOTE: The performance figures on this report are the result of replacing the electronic engine control module of the Massey Ferguson 6616 with the Massey Ferguson 6614 module.

REMARKS: All test results were determined from observed data obtained in accordance with official OECD test procedures. The manufacturer's remote hydraulic flow claims of 15 GPM (standard flow) and 26 GPM (combined flow) were 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. **2793**, Nebraska Summary 916, January 21, 2014.

Roger M. Hoy
Director

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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 Turtle 8	71.0	71.0
Bystander		--

TIRES, BALLAST 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 580/70R38; **; 14(100)
Two 480/70R28; **; 14(100)
21.7 in (550 mm)
9295 lb (4215 kg)
6635 lb (3010 kg)
15930 lb (7225 kg)

HYDRAULIC PERFORMANCE

CATEGORY: II

Quick Attach: No

OECD Static test

Maximum force exerted through whole range: 11755 lbs (52.3 kN)

two outlet sets combined

- i) Sustained pressure at compensator cutoff: 2930 psi (202 bar)
- ii) Pump delivery rate at minimum pressure: 31.3 GPM (118.5 l/min)
- iii) Pump delivery rate at maximum
 - hydraulic power: 29.1 GPM (110.2 l/min)
 - Delivery pressure: 2320 psi (160 bar)
 - Power: 39.4 HP (29.4 kW)

single outlet set

- i) Sustained pressure at compensator cutoff: 2930 psi (202 bar)
- ii) Pump delivery rate at minimum pressure: 31.4 GPM (118.7 l/min)
- iii) Pump delivery rate at maximum
 - hydraulic power: 28.1 GPM (106.2 l/min)
 - Delivery pressure: 1930 psi (133 bar)
 - Power: 31.6 HP (23.6 kW)

HITCH DIMENSIONS AS TESTED—NO LOAD

	inch	mm
A	31.3	796
B	13.4	340
C	13.9	354
D	11.9	303
E	8.8	223
F	10.3	261
G	34.5	875
H	2.4	60
I	15.2	386
J	24.2	614
K	26.1	662
L	45.6	1157
M	26.1	662
N	39.8	1012
O	7.9	201
P	48.2	1224
Q	34.8	884
R	29.9	760

