

SUMMARY OF OECD TEST 2198—NEBRASKA SUMMARY 475

MASSEY FERGUSON 7495 DYNAV T DIESEL

DYNA STEP TRANSMISSION

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—1082 rpm)					
157.0 (117.1)	2201	10.17 (38.51)	0.450 (0.274)	15.43 (3.04)	
Standard Power Take-off Speed(1000rpm)					
166.8 (124.4)	2034	10.03 (37.96)	0.417 (0.254)	16.63 (3.28)	
Maximum Power (2 hours)					
168.6 (125.7)	1900	9.54 (36.11)	0.393 (0.239)	17.67 (3.48)	

VARYING POWER AND FUEL CONSUMPTION

157.0 (117.1)	2201	10.17 (38.51)	0.450 (0.274)	15.43 (3.04)	Air temperature
135.6 (101.1)	2235	9.04 (34.21)	0.462 (0.282)	15.00 (2.96)	66°F(19°C)
102.4 (76.4)	2264	7.41 (28.06)	0.503 (0.306)	13.82 (2.72)	Relative humidity
69.3 (51.7)	2288	5.65 (21.37)	0.566 (0.344)	12.28 (2.42)	45%
35.1 (26.2)	2313	4.14 (15.67)	0.819 (0.498)	8.48 (1.67)	Barometer
--	2335	2.53 (9.56)	--	--	29.7" Hg(97.5 kPa)

Maximum Torque - 542 lb.-ft. (735 Nm) at 1450 rpm
 Maximum Torque Rise - 44.7%
 Torque rise at 1800 engine rpm - 30%

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.h/l)	Temp. °F (°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
Maximum Power—Turtle 12									
125.1 (93.3)	10045 (44.69)	4.67 (7.52)	2203	4.5	0.562 (0.342)	12.33 (2.43)	162 (72)	68 (20)	29.7 (100.5)
75% of Pull at Maximum Power—Turtle 12									
99.7 (74.4)	7550 (33.58)	4.95 (7.97)	2246	1.9	0.594 (0.361)	11.68 (2.30)	160 (71)	66 (19)	29.7 (100.5)
50% of Pull at Maximum Power—Turtle 12									
68.9 (51.4)	5065 (22.53)	5.10 (8.21)	2274	0.9	0.680 (0.413)	10.21 (2.01)	156 (69)	70 (21)	29.7 (100.5)
75% of Pull at Reduced Engine Speed—Turtle 14									
99.8 (74.4)	7540 (33.55)	4.96 (7.98)	1642	2.8	0.472 (0.287)	14.72 (2.90)	156 (69)	70 (21)	29.7 (100.5)
50% of Pull at Reduced Engine Speed—Turtle 14									
68.1 (50.8)	5010 (22.29)	5.10 (8.20)	1662	1.7	0.526 (0.320)	13.20 (2.60)	151 (66)	70 (21)	29.7 (100.5)

Location of tests: DLG testing Station for Agricultural Machinery, Max-Eyth-Weg 1 D-64823 Gros - Umstadt, Germany

Dates of tests: January - May, 2004

Sound tests: January 19, 2006

Manufacturer: AGCO S.A. BP 60307, Avenue Blaise Pascal, 60026 Beauvais, France

FUEL and OIL: Fuel No. 2 Diesel **Specific gravity converted to 60°/60° F (15°/15°C)** 0.834 **Fuel weight** 6.94 lbs/gal (0.8322 kg/l) **Oil SAE** 10W40 **API service classification** CF4 **Transmission and hydraulic lubricant** BP Terrac Tractan 9 10W/40 **Frontaxle lubricant** SAE 85W140 API GL-5

ENGINE: Make Sisu Diesel **Type** six cylinder vertical with turbocharger and air to air intercooler **Serial No.** M20369 **Crankshaft** lengthwise **Rated engine speed** 2200 **Bore and stroke** 4.252" x 4.724" (108.0 mm x 120.0 mm) **Compression ratio** 18.5 to 1 **Displacement** 402 cu in (6596 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.** M309065 **Tread width** rear 63.1" (1604 mm) to 70.8" (1798 mm) front 67.0" (1702 mm) to 75.4" (1915 mm) **Wheelbase** 118.4" (3007 mm) **Hydraulic control system** direct engine drive **Transmission** AGCO Stepshift. A combination of mechanical and hydrostatic sections are electronically controlled to give the travel speeds shown. The transmission has two mechanical ranges. **Nominal travel speeds mph (km/h)** Forward: Low range 1st-1.1 (1.8), 2nd-1.4 (2.2), 3rd-1.6 (2.6), 4th-1.9 (3.0), 5th-2.1 (3.4), 6th-2.4 (3.8), 7th-2.6 (4.2), 8th-3.0 (4.8), 9th-3.4 (5.4), 10th-3.7 (6.0), 11th-4.2 (6.8), 12th-4.8 (7.8), 13th - 5.6 (9.0), 14th - 6.5 (10.4), 15th - 7.3 (11.8), 16th - 8.3 (13.4), 17th - 9.6 (15.4), 18th - 11.1 (17.8), 19th - 12.8 (20.6), 20th - 14.8 (23.8), 21st - 17.0 (27.4) High range: 1st - 2.4 (3.8), 2nd - 2.6 (4.2), 3rd - 3.0 (4.8), 4th - 3.4 (5.4), 5th - 3.7 (6.0), 6th - 4.2 (6.8), 7th - 4.7 (7.6), 8th - 5.3 (8.6), 9th - 6.0 (9.6), 10th - 6.6 (10.6), 11th - 7.3 (11.8), 12th - 8.2 (13.2), 13th - 9.2 (14.8), 14th - 10.3 (16.6), 15th - 11.7 (18.8), 16th - 13.3 (21.4), 17th - 15.0 (24.2), 18th - 17.0 (27.4), 19th - 19.4 (31.2), 20th - 22.0 (35.4), 21st - 25.0 (40.2) Reverse Low range: 1.1 (1.8), 1.4 (2.2), 1.6 (2.6), 1.9 (3.0), 2.1 (3.4), 2.4 (3.8), 2.6 (4.2), 3.0 (4.8), 3.4 (5.4), 3.7 (6.0), 4.2 (6.8), 4.8 (7.8), 5.6 (9.0), 6.5 (10.4), 7.3 (11.8), 8.3 (13.4), 9.6 (15.4), 11.1 (17.8)

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. °F(°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
Turtle 11									
128.5 (95.8)	14795 (65.82)	3.26 (5.24)	1943	15.0	0.531 (0.323)	13.08 (2.58)	154 (68)	61 (16)	29.7 (100.5)
Turtle 12									
134.5 (100.3)	12655 (56.30)	3.99 (6.41)	1904	9.0	0.494 (0.301)	14.04 (2.77)	160 (71)	59 (15)	29.7 (100.5)
Turtle 13									
136.1 (101.5)	10465 (46.54)	4.88 (7.85)	1902	6.4	0.490 (0.298)	14.16 (2.79)	156 (69)	52 (11)	29.7 (100.5)
Turtle 14									
136.2 (101.6)	9345 (41.58)	5.47 (8.80)	1900	5.7	0.490 (0.298)	14.16 (2.79)	158 (70)	50 (10)	29.7 (100.5)
Turtle 15									
136.1 (101.5)	8315 (37.00)	6.14 (9.88)	1907	4.8	0.490 (0.298)	14.16 (2.79)	154 (68)	52 (11)	29.7 (100.5)
Turtle 16									
133.8 (99.8)	7060 (31.40)	7.11 (11.44)	1900	4.2	0.497 (0.303)	13.95 (2.75)	156 (69)	52 (11)	29.7 (100.5)
Turtle 17									
132.6 (98.9)	6125 (27.25)	8.12 (13.06)	1894	3.7	0.501 (0.305)	13.86 (2.73)	158 (70)	57 (14)	29.7 (100.5)
Turtle 18									
129.9 (96.9)	5095 (22.67)	9.56 (15.38)	1902	3.7	0.512 (0.311)	13.55 (2.67)	158 (70)	55 (13)	29.7 (100.5)
Rabbit 10									
130.2 (97.1)	8950 (39.82)	5.46 (8.78)	1902	5.3	0.509 (0.310)	13.64 (2.69)	165 (74)	66 (19)	29.7 (100.5)
Rabbit 11									
130.6 (97.4)	7855 (34.93)	6.24 (10.04)	1897	4.7	0.507 (0.308)	13.71 (2.70)	165 (74)	66 (19)	29.7 (100.5)
Rabbit 12									
132.1 (98.5)	7230 (32.17)	6.85 (11.02)	1909	4.2	0.501 (0.305)	13.86 (2.73)	165 (74)	68 (20)	29.7 (100.5)
Rabbit 13									
133.6 (99.6)	6595 (29.34)	7.59 (12.22)	1901	4.1	0.501 (0.305)	13.86 (2.73)	165 (74)	68 (20)	29.7 (100.5)
Rabbit 14									
131.4 (98.0)	5455 (24.27)	9.03 (14.54)	1904	3.4	0.509 (0.309)	13.65 (2.69)	160 (71)	63 (17)	29.7 (100.5)

High range: 2.4(3.8), 2.6(4.2), 3.0(4.8), 3.4(5.4), 3.7(6.0), 4.2(6.8), 4.7(7.6), 5.3(8.6), 6.0(9.6), 6.6(10.6), 7.3(11.8), 8.2(13.2), 9.2(14.8), 10.3(16.6), 11.7(18.8) **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 2062 engine rpm or 1000 rpm at 2033 engine rpm **Unladen tractor mass** 15145 lb (6870 kg)

REPAIRS AND ADJUSTMENTS: No repairs or adjustments.

NOTE: The engine of the Massey Ferguson 7495 has two different injection pump characteristics. Power boosted - for travel speeds above 9.3 mph (15.0 kmh) or above 5.0 mph (8.0 kmh) with PTO engaged. Standard for all other conditions.

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 II test procedure.

We, the undersigned, certify that this is a true summary of data from OECD Report No. **2198**, Nebraska Summary 475, March 15, 2006.

Leonard L. Bashford
Director

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TIRES, BALLAST AND WEIGHT

	With Ballast	Without Ballast
Rear tires - No., size, ply & psi(kPa)	Four 480/80R42; **,6 (40)	Two 520/85R42; **,12(80)
Ballast - Duals(total)	1770 lb (803 kg)	None
- Liquid(none)	None	None
Front tires - No., size, ply & psi(kPa)	Two 380/85R30; **,12 (80)	Two 540/65R30; **,12(80)
Ballast - Liquid(total)	None	None
- Cast Iron(total)	None	None
Height of Drawbar	18.9 in (480 mm)	21.7 in (550 mm)
Static Weight with operator - Rear	11330 lb (5140 kg)	9635 lb (4370 kg)
- Front	5535 lb (2510 kg)	5675 lb (2575 kg)
- Total	16865 lb (7650 kg)	15310 lb (6945 kg)

DRAWBAR PERFORMANCE
(Ballasted - 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.h/l)	Temp. ^o F (°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
Maximum Power—Turtle 12									
123.5 (92.1)	9570 (42.58)	4.84 (7.79)	2203	4.1	0.569 (0.346)	12.18 (2.40)	158 (70)	68 (20)	29.6 (100.3)
75% of Pull at Maximum Power—Turtle 12									
95.6 (71.3)	7170 (31.90)	5.00 (8.05)	2247	3.1	0.613 (0.373)	11.32 (2.23)	153 (67)	70 (21)	29.6 (100.3)
50% of Pull at Maximum Power—Turtle 12									
65.4 (48.8)	4775 (21.25)	5.14 (8.26)	2273	2.2	0.713 (0.434)	9.73 (1.92)	151 (66)	70 (21)	29.6 (100.3)
75% of Pull at Reduced Engine Speed—Turtle 13									
95.9 (71.5)	7165 (31.87)	5.02 (8.07)	1964	3.1	0.524 (0.319)	13.24 (2.61)	151 (66)	68 (20)	29.6 (100.3)
50% of Pull at Reduced Engine Speed—Turtle 13									
65.3 (48.7)	4765 (21.19)	5.14 (8.28)	1984	2.1	0.594 (0.362)	11.67 (2.30)	149 (65)	70 (21)	29.6 (100.3)
MAXIMUM POWER IN SELECTED GEARS									
Turtle 9									
121.9 (90.9)	16995 (75.60)	2.69 (4.33)	2021	15.1	0.562 (0.342)	12.33 (2.43)	156 (69)	64 (18)	29.6 (100.3)
Turtle 10									
132.2 (98.6)	15150 (67.39)	3.27 (5.27)	1901	8.7	0.502 (0.305)	13.82 (2.72)	151 (66)	73 (23)	29.6 (100.4)
Turtle 11									
133.4 (99.5)	14280 (63.53)	3.50 (5.64)	1900	7.3	0.496 (0.302)	14.00 (2.76)	153 (67)	68 (20)	29.6 (100.4)
Turtle 12									
133.7 (99.7)	12435 (53.31)	4.03 (6.49)	1899	5.9	0.493 (0.300)	14.06 (2.77)	154 (68)	64 (18)	29.7 (100.5)
Turtle 13									
134.8 (100.5)	10645 (47.34)	4.75 (7.64)	1901	4.4	0.490 (0.298)	14.16 (2.79)	156 (69)	72 (22)	29.7 (100.5)
Turtle 14									
134.4 (100.2)	9480 (42.16)	5.32 (8.55)	1902	4.1	0.492 (0.300)	14.09 (2.78)	156 (69)	66 (19)	29.7 (100.5)
Turtle 15									
133.2 (99.3)	7985 (35.52)	6.25 (10.06)	1903	3.2	0.500 (0.304)	13.90 (2.74)	156 (69)	66 (19)	29.6 (100.4)
Turtle 16									
131.0 (97.7)	6990 (31.09)	7.03 (11.32)	1901	3.0	0.506 (0.308)	13.71 (2.70)	158 (70)	68 (20)	29.6 (100.4)
Turtle 17									
128.9 (96.1)	6005 (26.72)	8.05 (12.95)	1903	2.6	0.516 (0.314)	13.45 (2.65)	158 (70)	66 (19)	29.6 (100.4)
Turtle 18									
125.9 (93.9)	5015 (22.30)	9.42 (15.16)	1904	2.0	0.529 (0.322)	13.12 (2.59)	158 (70)	65 (18)	29.6 (100.4)
Rabbit 10									
131.7 (98.2)	9030 (40.16)	5.47 (8.80)	1903	3.9	0.504 (0.306)	13.77 (2.71)	158 (70)	63 (17)	29.6 (100.3)
Rabbit 11									
132.0 (98.4)	7870 (35.01)	6.29 (10.12)	1902	3.4	0.502 (0.305)	13.82 (2.72)	158 (70)	63 (17)	29.6 (100.3)
Rabbit 12									
131.2 (97.8)	7015 (31.20)	7.01 (11.29)	1902	3.1	0.505 (0.307)	13.73 (2.70)	158 (70)	64 (18)	29.6 (100.3)
Rabbit 13									
130.7 (97.5)	6150 (27.35)	7.97 (12.83)	1902	2.7	0.508 (0.309)	13.65 (2.69)	156 (69)	64 (18)	29.6 (100.3)
Rabbit 14									
129.1 (96.3)	5465 (24.32)	8.86 (14.26)	1902	2.4	0.516 (0.314)	13.45 (2.65)	153 (67)	63 (17)	29.6 (100.3)

TRACTOR SOUND LEVEL WITH CAB

dB(A)

At no load in T13	70.4
Bystander in R21	86.4

THREE POINT HITCH PERFORMANCE (OECD Static Test)

CATEGORY: III

Quick Attach: None

Maximum force exerted through whole range: 14283 lbs (63.5 kN)

- i) Opening pressure of relief valve: NA
- Sustained pressure of the open relief valve: 2875 psi (198 bar)
- ii) Pump delivery rate at minimum pressure: 32.2 GPM (122.0 l/min)
- iii) Pump delivery rate at maximum
 - hydraulic power: 29.0 GPM (109.7 l/min)
 - Delivery pressure: 2610 psi (180 bar)
 - Power: 44.1 HP (32.9 kW)

HITCH DIMENSIONS AS TESTED - NO LOAD

	SAE TEST		OECD TEST	
	inch	mm	inch	mm
A	30.3	768	29.7	754
B	14.0	355	14.0	355
C	13.7	347	13.7	347
D	12.0	305	12.0	305
E	12.6	321	12.6	321
F	10.0	255	10.0	255
G	34.2	870	34.2	870
H	2.4	60	2.4	60
I	18.7	476	18.7	476
J	24.2	615	24.2	615
K	27.2	690	27.2	690
L	46.3	1175	46.3	1175
M	26.2	665	26.2	665
N	40.6	1030	40.6	1030
O	8.0	203	9.0	230
P	46.2	1173	51.2	1300
Q	37.3	947	39.5	1003
R	29.9	759	29.3	744

THREE POINT HITCH PERFORMANCE SAE Test

- Observed Maximum Pressure psi. (bar) 2850 (197)
- Location: lift cylinder
- Hydraulic oil temperature: °F (°C) 148 (64)
- Location: hydraulic sump
- Category: III
- Quick attach: None

SAE Static Test—System pressure 2665 psi (177 Bar)

Hitch point distance to ground level in. (mm)	8.2 (208)	14.4 (366)	20.8 (528)	27.2 (691)	33.6 (853)	40.0 (1016)
Lift force on frame lb	19719	17748	17721	18009	17874	16992
" " " " " " (kN)	(87.7)	(78.9)	(78.8)	(79.5)	(79.5)	(75.6)

