

SUMMARY OF OECD TEST 2324-NEBRASKA SUMMARY 543

AGCO DT 240A DIESEL POWERMAXX 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—1081 rpm)					
246.3 (183.7)	2199	15.34 (58.07)	0.433 (0.263)	16.05 (3.16)	
Standard Power Take-off Speed(1000rpm)					
265.5 (198.0)	2034	15.49 (58.63)	0.405 (0.247)	17.15 (3.38)	
Maximum Power (2 hours)					
267.7 (199.6)	2001	15.44 (58.43)	0.400 (0.244)	17.36 (3.42)	
VARYING POWER AND FUEL CONSUMPTION					
246.3 (183.7)	2199	15.34 (58.07)	0.433 (0.263)	16.05 (3.16)	Air temperature
219.1 (163.4)	2303	15.06 (56.99)	0.477 (0.290)	14.57 (2.87)	68°F (20°C)
165.5 (123.4)	2315	11.67 (44.16)	0.491 (0.298)	14.16 (2.79)	Relative humidity
110.5 (82.4)	2327	8.35 (31.60)	0.524 (0.319)	13.24 (2.61)	33%
55.5 (41.4)	2341	5.29 (20.02)	0.662 (0.403)	10.50 (2.07)	Barometer
--	2350	3.15 (11.92)	--	--	29.4" Hg(99.4 kPa)
Maximum Torque - 814 lb.-ft. (1103 Nm) at 1202 rpm					
Maximum Torque Rise - 38.4%					
Torque rise at 1800 engine rpm - 27%					

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									
210.9 (157.3)	16215 (72.13)	4.88 (7.85)	2200	6.0	0.510 (0.310)	13.60 (2.68)	185 (85)	79 (26)	29.6 (100.3)
75% of Pull at Maximum Power—Turtle									
169.6 (126.5)	12165 (54.12)	5.23 (8.42)	2300	3.9	0.580 (0.353)	11.98 (2.36)	189 (87)	81 (27)	29.6 (100.3)
50% of Pull at Maximum Power—Turtle									
116.4 (86.8)	8100 (36.03)	5.39 (8.67)	2316	2.4	0.596 (0.363)	11.66 (2.30)	190 (88)	79 (26)	29.6 (100.3)
75% of Pull at Reduced Engine Speed—Turtle									
169.0 (126.1)	12155 (54.06)	5.22 (8.39)	2044	3.9	0.478 (0.291)	14.52 (2.86)	189 (87)	79 (26)	29.6 (100.2)
50% of Pull at Reduced Engine Speed—Turtle									
115.7 (86.3)	8105 (36.06)	5.35 (8.61)	2054	2.7	0.523 (0.318)	13.30 (2.62)	190 (88)	79 (26)	29.6 (100.3)

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

Dates of tests: May - July, 2005

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) 0.835 Fuel weight 6.95 lbs/gal (0.8328 kg/l) Oil SAE 10W40 API service classification CH4 Transmission and hydraulic lubricant BP STOU 10W/40 Front axle lubricant SAE 85W90 API GL5

ENGINE: Make Sisu Diesel Type six cylinder vertical with turbocharger and air to air intercooler Serial No. P08256 Crankshaft lengthwise Rated engine speed 2200 Bore and stroke 4.370" x 5.709" (111.0 mm x 145.0 mm) Compression ratio 17.5 to 1 Displacement 513 cu in (8419 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 vertical Cooling medium temperature control thermostat and variable speed fan

CHASSIS: Type front wheel assist Serial No. N167999 Tread width rear 66.9" (1699 mm) to 91.6" (2326 mm) front 72.5" (1692 mm) to 78.6" (2116 mm) Wheelbase 121.1" (3075 mm) Hydraulic control system direct engine drive Transmission AGCO CVT. 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 0 - 17 (0 - 28), high range 0 - 25 (0 - 40) reverse: Low range 0 - 11 (0 - 18), high range 0 - 12 (0 - 19) 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 1588 engine rpm or 1000 rpm at 2033 engine rpm Unladen tractor mass 20370 lb (9240 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 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)
204.1 (152.2)	20670 (91.94)	3.70 (5.96)	2051	14.5	Turtle 0.531 (0.323)	13.10 (2.58)	190 (88)	73 (23)	29.5 (99.8)
222.6 (166.0)	18820 (83.72)	4.44 (7.14)	2005	7.9	Turtle 0.485 (0.295)	14.31 (2.82)	187 (86)	73 (23)	29.5 (99.8)
223.9 (167.0)	16920 (75.26)	4.96 (7.99)	2000	6.4	Turtle 0.480 (0.292)	14.47 (2.85)	194 (90)	81 (27)	29.5 (99.8)
224.9 (167.7)	14520 (64.58)	5.81 (9.35)	2000	4.9	Turtle 0.480 (0.292)	14.47 (2.85)	196 (91)	81 (27)	29.5 (99.8)
225.2 (167.9)	12775 (56.82)	6.61 (10.64)	2001	4.0	Turtle 0.478 (0.291)	14.52 (2.86)	198 (92)	81 (27)	29.5 (99.8)
224.0 (167.0)	11335 (50.43)	7.41 (11.92)	2002	3.4	Turtle 0.480 (0.292)	14.47 (2.85)	198 (92)	79 (26)	29.5 (99.8)
221.8 (165.4)	9675 (43.04)	8.60 (13.83)	1998	2.7	Turtle 0.487 (0.296)	14.26 (2.81)	196 (91)	79 (26)	29.5 (99.8)
217.9 (162.5)	17540 (78.03)	4.66 (7.50)	2001	6.5	Rabbit 0.494 (0.300)	14.07 (2.77)	185 (85)	72 (22)	29.5 (99.9)
215.5 (160.7)	15635 (69.55)	5.17 (8.32)	2001	5.5	Rabbit 0.497 (0.302)	13.98 (2.75)	189 (87)	84 (29)	29.5 (99.9)
217.8 (162.4)	14025 (62.38)	5.82 (9.37)	2001	4.7	Rabbit 0.492 (0.299)	14.12 (2.78)	194 (90)	84 (29)	29.5 (99.8)
220.7 (164.6)	12695 (56.48)	6.52 (10.49)	2003	4.2	Rabbit 0.485 (0.295)	14.31 (2.82)	192 (89)	86 (30)	29.5 (99.8)
221.3 (165.0)	11295 (50.25)	7.35 (11.82)	2001	3.4	Rabbit 0.484 (0.294)	14.37 (2.83)	194 (90)	90 (32)	29.5 (99.9)
222.2 (165.7)	10065 (44.78)	8.28 (13.32)	2003	2.8	Rabbit 0.484 (0.294)	14.37 (2.83)	196 (91)	88 (31)	29.5 (99.8)
222.7 (166.0)	8825 (39.26)	9.46 (15.23)	2003	2.2	Rabbit 0.483 (0.294)	14.41 (2.84)	198 (92)	88 (31)	29.5 (99.8)
222.2 (165.7)	8060 (35.85)	10.34 (16.64)	2005	2.0	Rabbit 0.485 (0.295)	14.31 (2.82)	196 (91)	88 (31)	29.5 (99.8)

Note: The data on this summary was obtained from OECD report 2324 conducted on the Massey Ferguson 8480 Diesel.

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 39.0 GPM (147 lpm) flow at the remote outlets. 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. **2324**, Nebraska Summary 543, June 16, 2006.

Leonard L. Bashford
Director

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

TIRES, BALLAST AND WEIGHT

Rear tires - No., size, ply & psi(kPa)

Ballast - Duals(total)
- Cast iron(total)

Front tires - No., size, ply & psi(kPa)

Ballast - Duals(total)
- Cast Iron(total)

Height of Drawbar

Static Weight with operator- Rear
- Front
- Total

With Ballast

Four 520/85R46; **,11 (70)
2390 lb (1084 kg)
5120 lb (2322 kg)
Four 480/70R34; **,12 (80)
1245 lb (565 kg)
2600 lb (1179 kg)
20.5 in (520 mm)
19445 lb (8820 kg)
12445 lb (5645 kg)
31890 lb(14465 kg)

Without Ballast

Two 650/85R38;***,12(80)
None
None
Two 600/70R28;***,12(80)
None
None
20.5 in (520 mm)
12630 lb (5730 kg)
7905 lb (3585 kg)
20535 lb (9315 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)	Temp. °F cool- ing med	Temp. °C Air dry bulb	Barom. inch Hg (kPa)	
Maximum Power—Turtle									
201.8 (150.5)	18035 (80.22)	4.20 (6.75)	2201	5.1	0.537 (0.327)	12.94 (2.55)	194 (90)	84 (29)	29.6 (100.3)
75% of Pull at Maximum Power—Turtle									
161.7 (120.6)	13520 (60.15)	4.49 (7.22)	2299	3.9	0.614 (0.373)	11.32 (2.23)	190 (88)	86 (30)	29.6 (100.3)
50% of Pull at Maximum Power—Turtle									
110.1 (82.1)	9010 (40.07)	4.58 (7.38)	2313	2.4	0.702 (0.427)	9.90 (1.95)	190 (88)	84 (29)	29.6 (100.3)
75% of Pull at Reduced Engine Speed—Turtle									
162.1 (120.9)	13520 (60.15)	4.50 (7.23)	2032	3.8	0.492 (0.300)	14.11 (2.78)	190 (88)	84 (30)	29.6 (100.3)
50% of Pull at Reduced Engine Speed—Turtle									
109.3 (81.5)	8990 (39.98)	4.56 (7.34)	2043	3.2	0.539 (0.328)	12.89 (2.54)	190 (88)	84 (30)	29.6 (100.3)
MAXIMUM POWER IN SELECTED GEARS									
192.0 (143.2)	28755 (127.90)	2.50 (4.03)	2076	15.2	Turtle 0.562 (0.342)	12.38 (2.44)	189 (87)	81 (27)	29.6 (100.3)
210.8 (157.2)	26770 (119.07)	2.95 (4.75)	2001	10.1	Turtle 0.513 (0.312)	13.55 (2.67)	190 (88)	79 (26)	29.6 (100.4)
217.5 (162.2)	24585 (109.37)	3.32 (5.34)	2001	8.0	Turtle 0.496 (0.302)	14.01 (2.76)	187 (86)	77 (25)	29.6 (100.4)
220.9 (164.7)	21640 (96.26)	3.83 (6.16)	2001	6.3	Turtle 0.487 (0.296)	14.26 (2.81)	185 (85)	72 (22)	29.6 (100.4)
219.3 (163.5)	19420 (86.38)	4.23 (6.82)	2001	5.6	Turtle 0.491 (0.299)	14.16 (2.79)	196 (91)	81 (27)	29.7 (100.6)
220.1 (164.1)	16480 (73.31)	5.01 (8.06)	2001	4.6	Turtle 0.489 (0.298)	14.20 (2.80)	194 (90)	82 (28)	29.7 (100.6)
219.1 (163.4)	14285 (63.54)	5.75 (9.26)	2001	3.9	Turtle 0.491 (0.298)	14.16 (2.79)	197 (92)	82 (28)	29.7 (100.6)
216.4 (161.4)	12140 (54.00)	6.69 (10.76)	1999	2.8	Turtle 0.498 (0.303)	13.96 (2.75)	197 (92)	84 (29)	29.7 (100.6)
214.2 (159.7)	10660 (47.41)	7.54 (12.13)	2002	2.8	Turtle 0.505 (0.307)	13.76 (2.71)	201 (94)	82 (28)	29.7 (100.6)
210.7 (157.1)	9270 (41.24)	8.52 (13.72)	2001	2.0	Turtle 0.510 (0.310)	13.62 (2.68)	190 (88)	86 (30)	29.6 (100.4)
208.9 (155.8)	19055 (84.77)	4.11 (6.62)	2007	5.1	Rabbit 0.517 (0.314)	13.45 (2.65)	190 (88)	79 (26)	29.7 (100.6)
210.7 (157.1)	17260 (76.78)	4.58 (7.37)	2001	4.8	Rabbit 0.509 (0.310)	13.65 (2.69)	185 (85)	75 (24)	29.7 (100.7)
215.5 (160.7)	15490 (68.91)	5.22 (8.39)	2000	3.9	Rabbit 0.500 (0.304)	13.91 (2.74)	189 (87)	72 (22)	29.7 (100.6)
217.1 (161.9)	13835 (61.54)	5.88 (9.47)	2000	3.9	Rabbit 0.494 (0.301)	14.06 (2.77)	192 (89)	75 (24)	29.7 (100.7)
217.6 (162.3)	12620 (56.14)	6.47 (10.41)	1995	3.1	Rabbit 0.494 (0.301)	14.06 (2.77)	192 (89)	72 (22)	29.7 (100.7)
216.7 (161.6)	10905 (48.50)	7.45 (12.00)	2001	2.6	Rabbit 0.496 (0.302)	14.01 (2.76)	192 (89)	75 (24)	29.7 (100.6)
216.3 (161.3)	9835 (43.76)	8.25 (13.27)	2004	2.4	Rabbit 0.500 (0.304)	13.91 (2.74)	194 (90)	73 (23)	29.7 (100.6)
214.6 (160.0)	8710 (38.74)	9.24 (14.87)	2002	2.1	Rabbit 0.504 (0.307)	13.79 (2.72)	194 (90)	75 (24)	29.7 (100.6)

TRACTOR SOUND LEVEL WITH CAB

dB(A)

At no load in Turtle-4.6 mph (7.5 km/h)- no load	70.0
Bystander	---

THREE POINT HITCH PERFORMANCE (OECD Static Test)

CATEGORY: III

Quick Attach: None

Maximum force exerted through whole range: 14648 lbs (65.2 kN)

i) Opening pressure of relief valve: NA

Sustained pressure of the open relief valve: 2875 psi (192 bar)

ii) Pump delivery rate at minimum pressure: 36.9 GPM (139.8 l/min)

iii) Pump delivery rate at maximum

hydraulic power: 35.0 GPM (132.5 l/min)

Delivery pressure: 2335 psi (161 bar)

Power: 47.7 HP (35.6 kW)

	OECD test		SAE test	
	inch	mm	inch	mm
A	31.9	809	30.4	773
B	14.2	360	14.2	360
C	17.7	449	17.7	449
D	15.4	390	15.4	390
E	11.8	300	8.9	225
F	13.0	330	13.0	330
G	36.2	920	36.2	920
H	3.4	85	3.4	85
I	15.7	400	18.7	475
J	23.2	590	23.2	590
K	26.8	680	26.8	680
L	50.4	1281	50.4	1281
M	27.9	709	27.9	709
N	41.1	1045	41.1	1045
O	9.0	230	8.0	203
P	50.2	1275	45.2	1150
Q	39.3	999	38.5	978
R	34.3	872	34.8	886

THREE POINT HITCH PERFORMANCE SAE Test

Observed Maximum Pressure psi.(bar)	2800(193)
Location:	lift cylinder
Hydraulic oil temperature: °F(°C)	150(66)
Location:	hydraulic sump
Category:	III
Quick attach:	None

SAE Static Test—System pressure 2520 psi (174 Bar)

Hitch point distance to ground level in. (mm)	8.2 (208)	16.1 (409)	24.1 (612)	32.1 (815)	40.0 (1016)
Lift force on frame lb	16994	18242	18320	18191	16921
" " " " " " (kN)	(75.6)	(81.1)	(81.5)	(80.9)	(75.3)

