

SUMMARY OF OECD TEST 2395-NEBRASKA SUMMARY 638

AGCO RT 140A AUTO 6 DIESEL

24 SPEED

Tractor chassis S/N R198011 and higher

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—1100 rpm)					
153.8 (114.7)	2200	9.48 (35.88)	0.439 (0.267)	16.23 (3.20)	
Standard Power Take-off Speed(1000 rpm)					
180.4 (134.5)	2000	10.12 (38.33)	0.399 (0.243)	17.82 (3.51)	
Maximum Power (1 hour)					
180.4 (134.5)	2000	10.12 (38.33)	0.399 (0.243)	17.82 (3.51)	

VARYING POWER AND FUEL CONSUMPTION

153.8 (114.7)	2200	9.48 (35.88)	0.439 (0.267)	16.23 (3.20)	Air temperature
131.8 (98.3)	2216	8.39 (31.76)	0.453 (0.276)	15.71 (3.09)	72°F (22°C)
99.4 (74.1)	2228	6.90 (26.12)	0.494 (0.301)	14.41 (2.84)	Relative humidity
66.5 (49.6)	2234	5.22 (19.78)	0.559 (0.340)	12.74 (2.51)	69%
33.5 (25.0)	2245	3.50 (13.24)	0.744 (0.453)	9.57 (1.89)	Barometer
--	2253	2.03 (7.67)	--	--	29.9" Hg (101.3 kPa)

Maximum Torque - 595.3 lb.-ft. (807.1 Nm) at 1400 rpm
 Maximum Torque rise - 62.0%
 Torque rise at 1750 engine rpm - 42%

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—13th(3B) Gear									
127.7 (95.2)	7350 (32.7)	6.52 (10.50)	2199	4.5	0.495 (0.301)	14.33 (2.82)	187 (86)	61 (16)	29.9 (101.4)
75% of Pull at Maximum Power—13th(3B) Gear									
97.6 (72.8)	5510 (24.5)	6.64 (10.69)	2211	3.1	0.540 (0.329)	13.15 (2.59)	183 (84)	61 (16)	29.9 (101.4)
50% of Pull at Maximum Power—13th(3B) Gear									
66.5 (49.6)	3710 (16.5)	6.72 (10.82)	2219	2.2	0.611 (0.372)	11.62 (2.29)	180 (82)	61 (16)	29.9 (101.4)
75% of Pull at Reduced Engine Speed—15th(3C) Gear									
96.8 (72.2)	5485 (24.4)	6.62 (10.66)	1881	3.2	0.481 (0.292)	14.77 (2.91)	180 (82)	63 (17)	29.9 (101.4)
50% of Pull at Reduced Engine Speed—15th(3C) Gear									
66.5 (49.6)	3700 (16.5)	6.74 (10.84)	1893	2.2	0.545 (0.331)	13.02 (2.56)	178 (81)	63 (17)	29.9 (101.4)

Location of tests: Groupement d'Antony, Parc de Touvois, BP 44 Antony, France 92163

Dates of tests: August - October, 2007

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

FUEL and OIL: Fuel No. 2 Diesel **Specific gravity converted to 60°/60°F (15°/15°C)** 0.855 **Fuel weight** 7.12 lbs/gal (0.853 kg/l) **Oil SAE 15W40 API service classification CH4 Transmission and hydraulic lubricant** BP Terrac Tractan 9 10W/40 **Front axle lubricant** BP Terrac Tractan 9 10W/40

ENGINE: Make Sisu Diesel **Type** six cylinder vertical with turbocharger and air to air intercooler **Serial No.** T05871 **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.** S103032 **Tread width** rear 61.7" (1567 mm) to 95.2" (2417 mm) front 68.8" (1747 mm) to 75.4" (1915 mm) **Wheelbase** 118.0" (2996 mm) **Hydraulic control system** direct engine drive **Transmission** selective gear fixed ratio with partial (6) range operator controlled powershift **Nominal travel speeds mph (km/h)** first 1.08 (1.73) second 1.29 (2.07) third 1.51 (2.43) fourth 1.82 (2.93) fifth 2.14 (3.45) sixth 2.58 (4.15) seventh 2.90 (4.66) eighth 3.49 (5.61) ninth 4.09 (6.58) tenth 4.92 (7.92) eleventh 5.55 (8.93) twelfth 5.79 (9.31) thirteenth 6.67 (10.74) fourteenth 6.97 (11.21) fifteenth 7.83 (12.60) sixteenth 9.43 (15.17) seventeenth 11.08 (17.83) eighteenth 12.60 (20.28) nineteenth 13.34 (21.46) twentieth 15.15 (24.38) twenty-first 17.78 (28.61) twenty-second 21.39 (34.43) twenty-third 25.16 (40.49) twenty-fourth 24.86 (40.00) reverse 1.08 (1.73), 1.29 (2.07), 1.51 (2.43), 1.82 (2.93), 2.14 (3.45), 2.58 (4.15), 2.90 (4.66), 3.49 (5.61), 4.09 (6.58), 4.92 (7.92), 5.55 (8.93), 5.79 (9.31), 6.67 (10.74), 6.97 (11.21), 7.83 (12.60), 9.43 (15.17), 11.08 (17.83), 12.60 (20.28), 13.34 (21.46), 15.15 (24.38), 17.78 (28.61), 21.39 (34.43), 25.16 (40.49), 24.86 (40.00)

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)
3rd(1C) Gear									
51.9 (38.7)	14705 (65.4)	1.32 (2.13)	2223	15.3	0.729 (0.443)	9.75 (1.92)	180 (82)	54 (12)	29.9 (101.3)
4th(1D) Gear									
61.7 (46.0)	14615 (65.0)	1.58 (2.55)	2213	14.5	0.671 (0.408)	10.58 (2.08)	180 (82)	54 (12)	29.9 (101.3)
5th(1E) Gear									
73.9 (55.1)	14390 (64.0)	1.93 (3.10)	2221	12.9	0.632 (0.384)	11.24 (2.21)	178 (81)	54 (12)	29.9 (101.3)
6th(1F) Gear									
87.3 (65.1)	14005 (62.3)	2.34 (3.76)	2213	11.7	0.590 (0.359)	12.03 (2.37)	178 (81)	55 (13)	29.9 (101.3)
7th(2A) Gear									
97.6 (72.8)	14030 (62.4)	2.61 (4.20)	2201	11.9	0.566 (0.344)	12.55 (2.47)	178 (81)	55 (13)	29.9 (101.4)
8th(2B) Gear									
116.9 (87.2)	14045 (62.5)	3.12 (5.03)	2190	11.9	0.532 (0.324)	13.35 (2.63)	181 (83)	57 (14)	29.9 (101.4)
9th(2C) Gear									
129.5 (96.6)	13625 (60.6)	3.57 (5.74)	2109	10.7	0.496 (0.302)	14.31 (2.82)	183 (84)	57 (14)	29.9 (101.4)
10th(2D) Gear									
138.5 (103.3)	12430 (55.3)	4.18 (6.73)	2002	8.8	0.459 (0.279)	15.46 (3.04)	183 (84)	59 (15)	29.9 (101.4)
11th(3A) Gear									
155.7 (116.1)	12455 (55.4)	4.69 (7.54)	2000	9.2	0.468 (0.285)	15.18 (2.99)	185 (85)	59 (15)	29.9 (101.4)
12th(2E) Gear									
140.0 (104.4)	10475 (46.6)	5.01 (8.07)	2002	6.9	0.458 (0.278)	15.51 (3.05)	183 (84)	61 (16)	29.9 (101.4)
13th(3B) Gear									
160.0 (119.3)	10340 (46.0)	5.80 (9.34)	2003	6.5	0.455 (0.277)	15.58 (3.07)	189 (87)	64 (18)	29.9 (101.4)
14th(2F) Gear									
138.5 (103.3)	8495 (37.8)	6.11 (9.84)	1999	5.3	0.461 (0.280)	15.40 (3.03)	189 (87)	63 (17)	29.9 (101.4)
15th(3C) Gear									
161.2 (120.2)	8770 (39.0)	6.89 (11.10)	2003	5.5	0.449 (0.273)	15.80 (3.11)	189 (87)	64 (18)	29.9 (101.4)
*16th(3D) Gear									
157.0 (117.1)	7345 (32.7)	8.02 (12.90)	2002	7.7	0.459 (0.279)	15.46 (3.04)	190 (88)	64 (18)	29.9 (101.4)
*17th(3E) Gear									
156.1 (116.4)	6115 (27.2)	9.57 (15.40)	2000	6.8	0.459 (0.279)	15.48 (3.05)	192 (89)	64 (18)	29.9 (101.4)

*Front Drive Disengaged

Clutch multiple wet disc operated by foot pedal
Brakes multiple wet disc hydraulically operated by two foot pedals that can be locked together
Steering hydrostatic **Power take-off** 540 rpm at 1998 engine rpm or 1000 rpm at 2000 engine rpm **Unladen tractor mass** 16305 lb (7395 kg)

NOTE 1: The engine on this tractor is electronically controlled to give 2 power levels. A "boosted" level is available when the PTO is engaged, tractor stationary, and when the tractor is operated in ranges 3 and 4.

NOTE 2: The data on this summary was obtained from OECD report 2395 conducted on the Massey Ferguson 6490 Diesel.

NOTE 3: The performance figures on this report apply to tractors with chassis S/N R198011 and higher.

REPAIRS AND ADJUSTMENTS: No repairs or adjustments

REMARKS: All test results were determined from observed data obtained in accordance with official OECD test procedures. The manufacturers' claims of 39 GPM (150 lpm) remote hydraulic flow and 16500 lbs (7480 kg) 3 point lift capacity with a category III/IIIN hitch 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. **2395**, Nebraska Summary 638, April 30, 2009.

Roger M. Hoy
 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 - Liquid (total)
 - Cast Iron (total)
Height of Drawbar
Static Weight with operator - Rear
 - Front
 - Total

With Ballast

Four 480/80R46; ***; 15(100)
 2190 lb (993 kg)
 None
 Two 420/90R30; **; 15(100)
 None
 1700 lb (770 kg)
 23.6 in (600 mm)
 11960 lb (5425 kg)
 8850 lb (4015 kg)
 20810 lb (9440 kg)

Without Ballast

Two 520/85R42; **; 15(100)
 None
 None
 Two 16.9R30; **; 15(100)
 None
 None
 23.6 in (600 mm)
 9835 lb (4460 kg)
 6625 lb (3005 kg)
 16460 lb (7465 kg)

DRAWBAR PERFORMANCE
(Ballasted - 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)
69.6 (51.9)	19920 (88.6)	1.31 (2.11)	2207	15.5	0.653 (0.397)	10.88 (2.14)	180 (82)	55 (13)	30.3 (102.5)
86.5 (64.5)	19815 (88.1)	1.64 (2.63)	2211	12.8	0.600 (0.365)	11.83 (2.33)	178 (81)	57 (14)	30.3 (102.5)
101.8 (75.9)	19715 (87.7)	1.94 (3.12)	2203	11.5	0.575 (0.350)	12.33 (2.43)	180 (82)	57 (14)	30.3 (102.5)
119.2 (88.9)	18975 (84.4)	2.36 (3.79)	2160	8.3	0.526 (0.320)	13.50 (2.66)	176 (80)	57 (14)	30.3 (102.5)
128.3 (95.7)	18705 (83.2)	2.57 (4.14)	2099	8.5	0.500 (0.304)	14.21 (2.80)	181 (83)	57 (14)	30.3 (102.5)
137.2 (102.3)	16995 (75.6)	3.03 (4.87)	2009	6.6	0.466 (0.283)	15.24 (3.00)	185 (85)	57 (14)	30.3 (102.5)
139.3 (103.9)	14535 (64.7)	3.60 (5.79)	1997	5.1	0.456 (0.277)	15.56 (3.06)	185 (85)	57 (14)	30.3 (102.5)
140.1 (104.5)	12050 (53.6)	4.36 (7.02)	2001	3.5	0.453 (0.275)	15.68 (3.09)	187 (86)	59 (15)	30.3 (102.5)
158.5 (118.2)	12115 (53.9)	4.91 (7.89)	1999	4.2	0.453 (0.275)	15.68 (3.09)	187 (86)	59 (15)	30.3 (102.5)
138.3 (103.1)	10015 (44.6)	5.18 (8.33)	2001	3.5	0.457 (0.278)	15.53 (3.06)	189 (87)	59 (15)	30.3 (102.5)
159.0 (118.6)	10045 (44.7)	5.94 (9.56)	2000	4.1	0.454 (0.276)	15.63 (3.08)	189 (87)	59 (15)	30.3 (102.5)
137.2 (102.3)	8250 (36.7)	6.24 (10.05)	1997	3.0	0.463 (0.281)	15.35 (3.02)	189 (87)	59 (15)	30.3 (102.5)
157.8 (117.7)	8405 (37.4)	7.04 (11.34)	2000	2.2	0.455 (0.277)	15.58 (3.07)	190 (88)	59 (15)	30.3 (102.5)
157.4 (117.4)	7080 (31.5)	8.34 (13.42)	2005	2.9	0.457 (0.278)	15.53 (3.06)	189 (87)	59 (15)	30.3 (102.5)
152.7 (113.9)	5825 (25.9)	9.83 (15.82)	2006	3.1	0.469 (0.285)	15.14 (2.98)	190 (88)	59 (15)	30.3 (102.5)

*Front Drive disengaged

TRACTOR SOUND LEVEL WITH CAB

dB(A)

At no load in 10th (2D) gear	69.0
Bystander	--

THREE POINT HITCH PERFORMANCE (OECD Static Test)

CATEGORY: II

Quick Attach: None

Maximum force exerted through whole range: 14905 lbs (66.3 kN)

- i) Opening pressure of relief valve: NA
- Sustained pressure of the open relief valve: 2845 psi (196 bar)
- ii) Pump delivery rate at minimum pressure: 30.5 GPM (115.6 l/min)
- iii) Pump delivery rate at maximum
 - hydraulic power: 26.5 GPM (100.2 l/min)
 - Delivery pressure: 2290 psi (158 bar)
 - Power: 35.4 HP (26.4 kW)

	OECD test		SAE test	
	inch	mm	inch	mm
A	29.7	755	30.3	770
B	15.7	400	15.7	400
C	20.7	525	20.7	525
D	19.1	485	19.1	485
E	8.3	210	11.6	295
F	12.2	310	12.2	310
G	36.4	925	36.4	925
H	2.0	50	2.0	50
I	17.7	450	16.9	430
J	24.2	615	24.2	615
K	21.8	554	21.8	554
L	47.2	1200	47.2	1200
M	22.0	560	22.0	560
N	37.1	942	37.1	942
O	8.7	220	8.7	220
P	48.2	1225	43.2	1098
Q	38.8	986	38.8	986
R	36.3	923	36.3	923

THREE POINT HITCH PERFORMANCE SAE Test

- Observed Maximum Pressure psi. (bar): 2845 (196)
- Location: lift cylinder
- Hydraulic oil temperature: °F (°C): 145 (63)
- Location: hydraulic sump
- Category: II
- Quick attach: None

SAE Static Test—System pressure 2555 psi (176 bar)

Hitch point distance to ground level in. (mm)	11.8 (300)	16.4 (416)	24.2 (615)	30.1 (764)	35.4 (900)	41.3 (1050)
Lift force on frame lb	17130	17020	17335	17310	17195	16525
" " " " " " (kN)	(76.2)	(75.7)	(77.1)	(77.0)	(76.5)	(73.5)

