

SUMMARY OF OECD TEST 2421-NEBRASKA SUMMARY 647

AGCO RT 155A CVT DIESEL POWERMAXX TRANSMISSION

Tractor chassis S/N R241002 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—1081 rpm) | | | | | |
| 162.5 (121.2) | 2200 | 9.70 (36.71) | 0.425 (0.259) | 16.75 (3.30) | |
| Standard Power Take-off Speed(1000 rpm) | | | | | |
| 185.7 (138.5) | 2035 | 10.20 (38.62) | 0.391 (0.238) | 18.21 (3.59) | |
| Maximum Power (1 hour) | | | | | |
| 190.0 (141.7) | 2000 | 10.29 (38.97) | 0.386 (0.235) | 18.46 (3.64) | |
| VARYING POWER AND FUEL CONSUMPTION | | | | | |
| 162.5 (121.2) | 2200 | 9.70 (36.71) | 0.425 (0.259) | 16.75 (3.30) | Air temperature |
| 139.6 (104.1) | 2223 | 8.56 (32.41) | 0.436 (0.265) | 16.31 (3.21) | 68°F (20°C) |
| 105.0 (78.3) | 2230 | 6.65 (25.17) | 0.451 (0.274) | 15.79 (3.11) | Relative humidity |
| 70.4 (52.5) | 2239 | 4.95 (18.74) | 0.500 (0.304) | 14.22 (2.80) | 54% |
| 35.4 (26.4) | 2248 | 3.27 (12.38) | 0.658 (0.401) | 10.81 (2.13) | Barometer |
| -- | 2255 | 1.87 (7.06) | -- | -- | 29.9" Hg (101.3 kPa) |
| Maximum Torque -562.9 lb.-ft. (821.6 Nm) at 1400 rpm | | | | | |
| Maximum Torque Rise -56.2% | | | | | |
| Torque rise at 1750 engine rpm -39% | | | | | |

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—Rabbit 9 | | | | | | | | | |
| 118.9 (88.7) | 7550 (33.6) | 5.91 (9.51) | 2201 | 4.5 | 0.555 (0.338) | 12.79 (2.52) | 185 (85) | 66 (19) | 29.9 (101.4) |
| 75% of Pull at Maximum Power—Rabbit 9 | | | | | | | | | |
| 91.2 (68.0) | 5685 (25.3) | 6.02 (9.69) | 2208 | 3.5 | 0.566 (0.344) | 12.55 (2.47) | 185 (85) | 66 (19) | 29.9 (101.4) |
| 50% of Pull at Maximum Power—Rabbit 9 | | | | | | | | | |
| 62.2 (46.4) | 3780 (16.8) | 6.17 (9.93) | 2226 | 2.8 | 0.644 (0.392) | 11.01 (2.17) | 182 (83) | 66 (19) | 29.9 (101.4) |
| 75% of Pull at Reduced Engine Speed—Rabbit 10 | | | | | | | | | |
| 91.9 (68.5) | 5720 (25.5) | 6.02 (9.69) | 1747 | 3.6 | 0.491 (0.299) | 14.47 (2.85) | 182 (83) | 68 (20) | 29.9 (101.4) |
| 50% of Pull at Reduced Engine Speed—Rabbit 10 | | | | | | | | | |
| 58.5 (43.6) | 3665 (16.3) | 5.98 (9.63) | 1707 | 4.2 | 0.545 (0.332) | 13.03 (2.57) | 178 (81) | 68 (20) | 29.8 (100.9) |

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

Dates of tests: June - September, 2007

Sound tests: June 24, 2008 Nebraska Tractor Test Laboratory, Lincoln Ne.

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** SAE 85W140 API GL-5

ENGINE: Make Sisu Diesel **Type** six cylinder vertical with turbocharger and air to air intercooler **Serial No.** T06951 **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.** S131034 **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** 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 0-19 (0-30), high range 0-25 (0-40) reverse: 0-19 (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 1998 engine rpm or 1000 rpm at 2033 engine rpm **Unladen tractor mass** 16600 lb (7530 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) |
|---------------------|--------------------------------|------------------------|---------------------------------|-----------|---|--------------------------------------|---|--------------------|-------------------------------|
| Turtle 3 | | | | | | | | | |
| 96.8 (72.2) | 14300 (63.6) | 2.54 (4.09) | 2203 | 15.0 | 0.593 (0.361) | 11.98 (2.36) | 183 (84) | 61 (16) | 29.9 (101.4) |
| Turtle 4 | | | | | | | | | |
| 102.1 (76.1) | 13915 (61.9) | 2.75 (4.43) | 2207 | 12.8 | 0.583 (0.355) | 12.18 (2.40) | 181 (83) | 61 (16) | 29.9 (101.4) |
| Turtle 5 | | | | | | | | | |
| 120.7 (90.0) | 13510 (60.1) | 3.35 (5.39) | 2206 | 12.1 | 0.551 (0.335) | 12.89 (2.54) | 183 (84) | 63 (17) | 29.9 (101.4) |
| Turtle 6 | | | | | | | | | |
| 131.0 (97.7) | 13600 (60.5) | 3.61 (5.81) | 2184 | 9.5 | 0.532 (0.323) | 13.36 (2.63) | 187 (86) | 63 (17) | 29.9 (101.4) |
| Turtle 7 | | | | | | | | | |
| 142.3 (106.2) | 13500 (60.0) | 3.95 (6.36) | 2050 | 9.0 | 0.503 (0.306) | 14.11 (2.78) | 185 (85) | 63 (17) | 29.9 (101.4) |
| Turtle 8 | | | | | | | | | |
| 153.7 (114.6) | 11295 (50.2) | 5.10 (8.21) | 2002 | 7.4 | 0.476 (0.289) | 14.92 (2.94) | 180 (82) | 63 (17) | 29.9 (101.4) |
| Turtle 9 | | | | | | | | | |
| 154.4 (115.1) | 9630 (42.8) | 6.01 (9.67) | 1998 | 7.1 | 0.473 (0.288) | 15.02 (2.96) | 190 (88) | 66 (19) | 29.9 (101.4) |
| Turtle 10 | | | | | | | | | |
| 152.1 (113.4) | 8140 (36.2) | 7.01 (11.28) | 2002 | 4.1 | 0.478 (0.291) | 14.87 (2.93) | 180 (82) | 66 (19) | 29.9 (101.4) |
| *Turtle 11 | | | | | | | | | |
| 148.0 (110.4) | 6985 (31.1) | 7.95 (12.79) | 2000 | 4.7 | 0.491 (0.298) | 14.48 (2.85) | 180 (82) | 66 (19) | 29.9 (101.4) |
| Rabbit 9 | | | | | | | | | |
| 146.6 (109.3) | 10405 (46.3) | 5.28 (8.50) | 2004 | 6.2 | 0.498 (0.303) | 14.26 (2.81) | 180 (82) | 66 (19) | 29.9 (101.4) |
| Rabbit 10 | | | | | | | | | |
| 149.0 (111.1) | 8170 (36.3) | 6.84 (11.00) | 2002 | 4.7 | 0.491 (0.299) | 14.47 (2.85) | 185 (85) | 70 (21) | 29.9 (101.4) |
| *Rabbit 11 | | | | | | | | | |
| 150.2 (112.0) | 7380 (32.8) | 7.63 (12.28) | 2004 | 4.5 | 0.486 (0.296) | 14.61 (2.88) | 190 (88) | 68 (20) | 29.9 (101.4) |
| *Rabbit 12 | | | | | | | | | |
| 148.6 (110.8) | 6495 (28.9) | 8.58 (13.81) | 2003 | 3.6 | 0.482 (0.299) | 14.43 (2.84) | 192 (89) | 70 (21) | 29.9 (101.4) |

*Front Drive disengaged

REPAIRS AND ADJUSTMENTS: No repairs or adjustments.

NOTE 1: The data on this summary was obtained from OECD report 2421 conducted on the Massey Ferguson 7495 Diesel.

NOTE 2: The performance figures on this report apply to tractors with chassis S/N R241002 and higher.

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 16140 lbs (7320 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 II test procedure.

We, the undersigned, certify that this is a true summary of data from OECD Report No. **2421**, Nebraska Summary 647, June 30, 2009.

Roger M. Hoy
Director

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

TIRES, BALLAST AND WEIGHT

| | With Ballast | Without Ballast |
|--|----------------------------|---------------------------|
| Rear tires - No., size, ply & psi(kPa) | Four 480/80R46; **,9 (60) | Two 520/85R42; **,15(100) |
| Ballast - Duals(total) | 2190 lb (993 kg) | None |
| - Liquid(none) | None | None |
| Front tires - No., size, ply & psi(kPa) | Two 420/90R30; **,15 (100) | Two 16.9R30; **,15(100) |
| Ballast - Liquid(total) | 1700 lb (770 kg) | None |
| - Cast Iron(total) | None | None |
| Height of Drawbar | 22.4 in (570 mm) | 22.4 in (570 mm) |
| Static Weight with operator - Rear | 11995 lb (5440 kg) | 10000 lb (4535 kg) |
| - Front | 8925 lb (4050 kg) | 6765 lb (3070 kg) |
| - Total | 20920 lb (9490 kg) | 16765 lb (7605 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 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 2 | | | | | | | | | |
| 103.4 (77.1) | 19930 (88.6) | 1.95 (3.13) | 2201 | 15.0 | 0.593 (0.361) | 11.98 (2.36) | 181 (83) | 64 (18) | 29.7 (100.6) |
| Turtle 3 | | | | | | | | | |
| 129.4 (96.5) | 18985 (84.4) | 2.56 (4.11) | 2091 | 11.4 | 0.524 (0.319) | 13.55 (2.67) | 189 (87) | 64 (18) | 29.7 (100.6) |
| Turtle 4 | | | | | | | | | |
| 142.0 (105.9) | 17040 (75.8) | 3.13 (5.03) | 1999 | 9.6 | 0.486 (0.296) | 14.61 (2.88) | 187 (86) | 63 (17) | 29.7 (100.6) |
| Turtle 5 | | | | | | | | | |
| 147.0 (109.6) | 17020 (75.7) | 3.24 (5.21) | 2002 | 7.7 | 0.487 (0.296) | 14.57 (2.87) | 180 (82) | 63 (17) | 29.7 (100.6) |
| Turtle 6 | | | | | | | | | |
| 151.0 (112.6) | 14395 (64.0) | 3.93 (6.33) | 1998 | 6.6 | 0.482 (0.293) | 14.72 (2.90) | 187 (87) | 64 (18) | 29.7 (100.6) |
| Turtle 7 | | | | | | | | | |
| 149.4 (111.4) | 12970 (57.7) | 4.32 (6.95) | 2001 | 5.8 | 0.487 (0.296) | 14.58 (2.87) | 187 (87) | 64 (18) | 29.7 (100.6) |
| Turtle 8 | | | | | | | | | |
| 150.5 (112.2) | 10880 (48.4) | 5.19 (8.35) | 1998 | 4.5 | 0.484 (0.294) | 14.67 (2.89) | 190 (88) | 64 (18) | 29.7 (100.6) |
| Turtle 9 | | | | | | | | | |
| 148.5 (110.7) | 9665 (43.0) | 5.76 (9.27) | 2005 | 4.3 | 0.487 (0.296) | 14.58 (2.87) | 192 (89) | 66 (19) | 29.7 (100.7) |
| Turtle 10 | | | | | | | | | |
| 147.4 (109.9) | 8295 (36.9) | 6.66 (10.72) | 1998 | 3.4 | 0.494 (0.300) | 14.38 (2.83) | 192 (89) | 66 (19) | 29.7 (100.7) |
| Turtle 11 | | | | | | | | | |
| 145.9 (108.8) | 7015 (31.2) | 7.80 (12.55) | 1993 | 3.2 | 0.496 (0.302) | 14.31 (2.82) | 192 (89) | 68 (20) | 29.7 (100.7) |
| Rabbit 9 | | | | | | | | | |
| 144.0 (107.4) | 9530 (42.4) | 5.67 (9.13) | 2004 | 4.1 | 0.507 (0.308) | 14.01 (2.76) | 192 (89) | 68 (20) | 29.7 (100.7) |
| Rabbit 10 | | | | | | | | | |
| 147.1 (109.7) | 8095 (36.0) | 6.81 (10.97) | 1995 | 3.7 | 0.493 (0.300) | 14.42 (2.84) | 194 (90) | 68 (20) | 29.7 (100.7) |
| Rabbit 11 | | | | | | | | | |
| 146.8 (109.5) | 6800 (30.2) | 8.10 (13.03) | 1997 | 3.2 | 0.496 (0.302) | 14.31 (2.82) | 187 (87) | 66 (19) | 29.8 (100.8) |
| *Rabbit 12 | | | | | | | | | |
| 144.0 (107.4) | 6005 (26.7) | 8.99 (14.47) | 1995 | 3.8 | 0.505 (0.307) | 14.06 (2.77) | 194 (90) | 66 (19) | 29.8 (100.8) |

*Front drive disengaged

Front Wheel Drive
Engaged Disengaged
dB(A) dB(A)

| TRACTOR SOUND LEVEL WITH CAB | Engaged dB(A) | Disengaged dB(A) |
|--|--------------------------|-----------------------------|
| At no load at 5.2 mph (8.4 km/h) (engine 1200 rpm) | 62.0 | 60.4 |
| At no load at 5.2 mph (8.4 km/h) (engine 2250 rpm) | 66.5 | 66.2 |
| Bystander in Rabbit range | | 82.3 |

HYDRAULIC PERFORMANCE

| | |
|--|------------------------|
| CATEGORY: II | |
| Quick Attach: None | |
| OECD Static test | |
| Maximum force exerted through whole range: | 13915 lbs (61.9 kN) |
| i) Opening pressure of relief valve: | NA |
| Sustained pressure of the open relief valve: | 2900 psi (200 bar) |
| ii) Pump delivery rate at minimum pressure: | 30.5 GPM (115.6 l/min) |
| iii) Pump delivery rate at maximum | |
| hydraulic power: | 29.3 GPM (111.0 l/min) |
| Delivery pressure: | 2265 psi (156 bar) |
| Power: | 38.7 HP (28.9 kW) |

THREE POINT HITCH PERFORMANCE - SAE Test

| | |
|--------------------------------------|----------------|
| Observed Maximum Pressure psi. (bar) | 2900 (200) |
| Location: | lift cylinder |
| Hydraulic oil temperature: °F (°C) | 158 (70) |
| Location: | hydraulic sump |
| Category: | II |
| Quick attach: | None |

System pressure 2610 psi (180 bar)

| | | | | | | |
|---|------------|------------|------------|------------|------------|------------|
| Hitch point distance to ground level in. (mm) | 12.0 (306) | 17.7 (450) | 23.6 (600) | 27.6 (700) | 33.5 (850) | 38.3 (974) |
| Lift force on frame lb | 16545 | 16590 | 16930 | 17175 | 17065 | 16140 |
| " " " " " " (kN) | (73.6) | (73.8) | (75.3) | (76.4) | (75.9) | (71.8) |

HITCH DIMENSIONS AS TESTED - NO LOAD

| | SAE TEST | | OECD TEST | |
|---|----------|------|-----------|------|
| | inch | mm | inch | mm |
| A | 29.7 | 754 | 30.7 | 780 |
| B | 14.0 | 355 | 14.0 | 355 |
| C | 14.4 | 365 | 14.4 | 365 |
| D | 12.0 | 305 | 12.0 | 305 |
| E | 12.6 | 321 | 10.9 | 276 |
| F | 10.9 | 276 | 10.9 | 276 |
| G | 36.4 | 925 | 36.4 | 925 |
| H | 2.4 | 60 | 2.4 | 60 |
| I | 15.0 | 380 | 15.6 | 397 |
| J | 25.5 | 649 | 25.5 | 649 |
| K | 26.2 | 665 | 26.2 | 665 |
| L | 47.6 | 1210 | 47.6 | 1210 |
| M | 27.0 | 685 | 27.0 | 685 |
| N | 40.6 | 1030 | 40.6 | 1030 |
| O | 12.0 | 306 | 7.8 | 199 |
| P | 44.6 | 1132 | 49.6 | 1259 |
| Q | 38.3 | 974 | 39.6 | 1006 |
| R | 28.7 | 729 | 30.7 | 780 |

