

SUMMARY OF OECD TEST 2709—NEBRASKA SUMMARY 853

CASE IH MAXXUM 125 DIESEL

17 SPEED

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—1109 rpm) | | | | | | |
| 108.8 (81.1) | 2100 | 6.65 (25.17) | 0.426 (0.259) | 16.36 (3.22) | 0.22 (0.83) | |
| Standard Power Take-off Speed (1000 rpm) | | | | | | |
| 115.6 (86.2) | 1893 | 6.63 (25.09) | 0.399 (0.243) | 17.44 (3.44) | 0.25 (0.93) | |
| Maximum Power (1 hour) | | | | | | |
| 115.7 (86.3) | 1800 | 6.49 (24.57) | 0.391 (0.238) | 17.83 (3.51) | 0.23 (0.87) | |

VARYING POWER AND FUEL CONSUMPTION

| | | | | | | |
|-----------------|------|-----------------|------------------|-----------------|----------------|---------------------|
| 108.8 (81.1) | 2100 | 6.65 (25.17) | 0.426 (0.259) | 16.36 (3.22) | 0.22 (0.83) | Air temperature |
| 93.5 (69.7) | 2124 | 6.05 (22.91) | 0.451 (0.275) | 15.44 (3.04) | 0.22 (0.83) | 80°F (27°C) |
| 70.9 (52.9) | 2145 | 4.96 (18.81) | 0.488 (0.297) | 14.28 (2.81) | 0.18 (0.69) | Relative humidity |
| 47.9 (35.7) | 2164 | 3.93 (14.89) | 0.572 (0.348) | 12.18 (2.40) | 0.13 (0.50) | 63% |
| 24.0 (17.9) | 2185 | 2.86 (10.83) | 0.831 (0.505) | 8.39 (1.65) | 0.08 (0.32) | Barometer |
| --- | 2202 | 2.16 (8.17) | --- | --- | --- | 29.0" Hg (98.3 kPa) |

Maximum torque - 380 lb.-ft. (495 Nm) at 1500 rpm

Maximum torque rise - 34.1%

Torque rise at 1700 engine rpm - 28%

Power increase at 1800 engine rpm - 6%

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—9th Gear | | | | | | | | | |
| 82.9 (61.8) | 5435 (24.2) | 5.72 (9.20) | 2101 | 2.8 | 0.558 (0.340) | 12.48 (2.46) | 189 (87) | 86 (30) | 29.1 (98.5) |
| 75% of Pull at Maximum Power—9th Gear | | | | | | | | | |
| 64.0 (47.7) | 4100 (18.2) | 5.85 (9.41) | 2139 | 2.0 | 0.635 (0.386) | 10.97 (2.16) | 189 (87) | 86 (30) | 29.1 (98.5) |
| 50% of Pull at Maximum Power—9th Gear | | | | | | | | | |
| 42.9 (32.0) | 2695 (12.0) | 5.97 (9.60) | 2160 | 1.3 | 0.756 (0.460) | 9.22 (1.82) | 189 (87) | 86 (30) | 29.1 (98.5) |
| 75% of Pull at Reduced Engine Speed—10th Gear | | | | | | | | | |
| 64.0 (47.7) | 4070 (18.1) | 5.90 (9.50) | 1927 | 2.0 | 0.590 (0.359) | 11.82 (2.33) | 187 (86) | 86 (30) | 29.1 (98.5) |
| 50% of Pull at Reduced Engine Speed—10th Gear | | | | | | | | | |
| 43.0 (32.1) | 2700 (12.0) | 5.98 (9.62) | 1949 | 1.3 | 0.742 (0.451) | 9.39 (1.85) | 187 (86) | 86 (30) | 29.1 (98.5) |

Location of tests: Istituto per le Macchine Agricole e Movimento Terra 73, Strada delle Cacce 10135 Torino Italy

Dates of tests: July, 2012.

Manufacturer: CNH Europe Holding S.A. 24, Boulevard Royal L-2449 Luxembourg

FUEL and OIL: Fuel No. 2 Diesel Specific gravity converted to 60°/60°F (15°/15°C) 0.837 Fuel weight 6.97 lbs/gal (0.835 kg/l) Diesel Exhaust Fluid (DEF) 32% aqueous urea solution DEF weight 9.08 lbs/gal (1.091 kg/l) Oil SAE 10W30 API service classification CH-4 Transmission and hydraulic lubricant Akcela Nexplore fluid Front axle lubricant Akcela Nexplore fluid

ENGINE: Make CNH Diesel Type six cylinder vertical with turbocharger, air to air intercooler and SCR (selective catalyst reduction) exhaust treatment Serial No. 882722 Crankshaft lengthwise Rated engine speed 2100 Bore and stroke 4.094" x 5.197" (104.0 mm x 132.0 mm) Compression ratio 17.5 to 1 Displacement 410 cu in (6728 ml) Starting system 12 volt Lubrication pressure Air cleaner two paper elements and aspirator 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. ZBBE01001 Tread width rear 56.3" (1430 mm) to 84.0" (2134 mm) front 61.4" (1560 mm) to 88.8" (2256 mm) Wheelbase 95.3" (2627 mm) Hydraulic control system direct engine drive Transmission selective gear fixed ratio with partial (8) range operator controlled powershift Nominal travel speeds mph (km/h) first 1.35 (2.18) second 1.66 (2.67) third 2.02 (3.25) fourth 2.48 (3.99) fifth 3.18 (5.11) sixth 3.90 (6.27) seventh 4.74 (7.63) eighth 5.29 (8.51) ninth 5.82 (9.36) tenth 6.48 (10.43) eleventh 7.90 (12.71) twelfth 9.69 (15.59) thirteenth 12.41 (19.98) fourteenth 15.23 (24.51) fifteenth 18.55 (29.85) sixteenth 23.83 (38.35) seventeenth 23.83 (38.35) electronically limited reverse 1.34 (2.15), 1.64 (2.64), 1.99 (3.21), 2.45 (3.94), 3.14 (5.05), 3.85 (6.20), 4.69 (7.54), 5.23 (8.41), 5.75 (9.25), 6.41 (10.31), 7.80 (12.56), 9.55 (15.40), 12.27 (19.75), 15.06 (24.23), 18.33 (29.50), 23.56 (37.91)

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) |
|---------------------|--------------------------------|------------------------|---------------------------------|-----------|---|--------------------------------------|--------------------------------------|--------------------|-------------------------------|
| 67.9 (50.6) | 11535 (51.3) | 2.21 (3.55) | 2131 | 15.0 | 4th Gear 0.598 (0.364) | 11.65 (2.30) | 189 (87) | 77 (25) | 29.1 (98.6) |
| 82.6 (61.6) | 11175 (49.7) | 2.77 (4.46) | 2018 | 11.3 | 5th Gear 0.560 (0.341) | 12.44 (2.45) | 189 (87) | 77 (25) | 29.2 (98.8) |
| 92.1 (68.7) | 10455 (46.5) | 3.30 (5.32) | 1884 | 6.7 | 6th Gear 0.497 (0.303) | 14.01 (2.76) | 189 (87) | 75 (24) | 29.1 (98.6) |
| 90.3 (67.3) | 8495 (37.8) | 3.98 (6.41) | 1821 | 4.3 | 7th Gear 0.501 (0.305) | 13.91 (2.74) | 189 (87) | 75 (24) | 29.1 (98.6) |
| 91.1 (67.9) | 7755 (34.5) | 4.41 (7.09) | 1801 | 3.8 | 8th Gear 0.508 (0.309) | 13.71 (2.70) | 189 (87) | 75 (24) | 29.1 (98.6) |
| 91.1 (67.9) | 7015 (31.2) | 4.87 (7.83) | 1800 | 3.4 | 9th Gear 0.508 (0.309) | 13.71 (2.70) | 189 (87) | 75 (24) | 29.1 (98.6) |
| 91.6 (68.3) | 6315 (28.1) | 5.44 (8.75) | 1800 | 3.1 | 10th Gear 0.503 (0.306) | 13.86 (2.73) | 187 (86) | 75 (24) | 29.1 (98.6) |
| 89.3 (66.6) | 5030 (22.4) | 6.66 (10.71) | 1799 | 2.5 | 11th Gear 0.518 (0.315) | 13.45 (2.65) | 187 (86) | 81 (27) | 29.1 (98.7) |
| 89.2 (66.5) | 4070 (18.1) | 8.22 (13.22) | 1800 | 2.0 | 12th Gear 0.516 (0.314) | 13.50 (2.66) | 189 (87) | 81 (27) | 29.1 (98.6) |

Clutch wet disc hydraulically actuated by foot pedal
Brakes wet disc hydraulically actuated by two foot pedals that can be locked together
Steering hydrostatic
Power take-off 540 rpm at 1970 engine rpm or 1000 rpm at 1894 engine rpm
Unladen tractor mass 13140 lb (5960 kg)

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 three point lift claim of 6900 lbs (3130 kg), with 80 mm lift cylinders. 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. **2709**, Nebraska Summary 853, January 17, 2013.

Roger M. Hoy
Director

M.R. Riley
P.J. Jasa
J.D. Luck
Board of Tractor Test Engineers

| TRACTOR SOUND LEVEL WITH CAB | Front Wheel Drive | |
|------------------------------|---------------------|------------------|
| | Disengaged dB(A) | Engaged dB(A) |
| At no load in 7th gear | 70.6 | 70.7 |
| Bystander | -- | -- |

TIRES 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 600/65R38; **,12 (80)
Two 480/65R28; **,12 (80)
17.6 in (447 mm)
7990 lb (3625 kg)
5315 lb (2410 kg)
13305 lb (6035 kg)

This vehicle is equipped with an electronically controlled engine Power management system that monitors and boosts engine power output in certain circumstances. This is achieved by electronically changing the characteristics of the engine power-speed curve. The engine Power management function ("boosted" power level) becomes active in the higher transmission gears for road transport applications. The system is also activated when power transfer through the PTO exceeds a preset level (and forward speed exceeds 0.5 km/h), for mobile PTO driven implement applications. An override system is provided to enable PTO operations at the "boosted" power level while the vehicle is stationary for test purposes. The results of this PTO output test are presented below.

POWER TAKE-OFF PERFORMANCE

| Power HP (kW) | Crank shaft speed rpm | Diesel Consumption Gal/hr (l/h) | lb/hp.hr (kg/kW.h) | D.E.F. Consumption Hp.hr/gal (kW.h/l) | Gal/hr (l/h) | Mean Atmospheric Conditions |
|---|--------------------------------|--|-----------------------|--|-----------------|--------------------------------|
| MAXIMUM POWER AND FUEL CONSUMPTION | | | | | | |
| Rated Engine Speed—(PTO speed—1109 rpm) | | | | | | |
| 127.4 (95.0) | 2100 | 7.42 (28.07) | 0.406 (0.247) | 17.21 (3.39) | 0.28 (1.06) | |
| Standard Power Take-off Speed (1000 rpm) | | | | | | |
| 140.1 (104.5) | 1893 | 7.75 (29.33) | 0.385 (0.234) | 18.07 (3.56) | 0.31 (1.19) | |
| Maximum Power (1 hour) | | | | | | |
| 140.9 (105.1) | 1800 | 7.70 (29.13) | 0.381 (0.232) | 18.32 (3.61) | 0.29 (1.11) | |

VARYING POWER AND FUEL CONSUMPTION

| | | | | | | |
|-----------------|------|-----------------|------------------|-----------------|----------------|---------------------|
| 127.4 (95.0) | 2100 | 7.42 (28.07) | 0.406 (0.247) | 17.21 (3.39) | 0.28 (1.06) | Air temperature |
| 109.2 (81.4) | 2114 | 6.70 (25.35) | 0.427 (0.260) | 16.29 (3.21) | 0.25 (0.93) | 81°F (27°C) |
| 82.7 (61.7) | 2137 | 5.49 (20.78) | 0.462 (0.281) | 15.00 (2.97) | 0.20 (0.75) | Relative humidity |
| 55.9 (41.7) | 2160 | 4.27 (16.18) | 0.533 (0.324) | 13.10 (2.58) | 0.15 (0.55) | 56% |
| 28.2 (21.0) | 2181 | 3.04 (11.51) | 0.753 (0.458) | 9.24 (1.82) | 0.09 (0.35) | Barometer |
| --- | 2203 | 2.16 (8.19) | --- | --- | --- | 29.1" Hg (98.5 kPa) |

Maximum torque - 454 lb.-ft. (591 Nm) at 1500 rpm
 Maximum torque rise - 36.8%
 Torque rise at 1700 engine rpm - 32%
 Power increase at 1800 engine rpm - 10%

HYDRAULIC PERFORMANCE

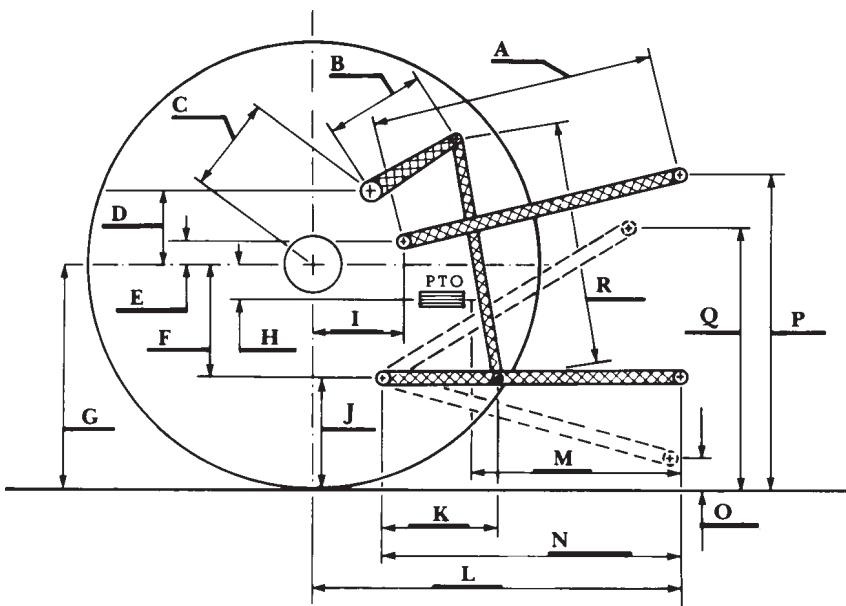
CATEGORY: II

Quick Attach: None

OECD Static test

Maximum force exerted through whole range: 6720 lbs (29.9 kN) (80 mm lift cylinders)
7980 lbs (35.5 kN) (90 mm lift cylinders)

- i) Sustained pressure of the open relief valve: 3000 psi (208 bar)
- ii) Pump delivery rate at minimum pressure: 27.0 GPM (102.2 l/min)
- iii) Pump delivery rate at maximum
 - hydraulic power: 22.2 GPM (83.9 l/min)
 - Delivery pressure: 2755 psi (190 bar)
 - Power: 35.7 HP (26.6 kW)



HITCH DIMENSIONS AS TESTED—NO LOAD

| | inch | mm |
|---|------|------|
| A | 29.9 | 760 |
| B | 12.2 | 310 |
| C | 15.6 | 395 |
| D | 14.6 | 370 |
| E | 7.9 | 200 |
| F | 9.3 | 235 |
| G | 32.5 | 825 |
| H | 1.0 | 25 |
| I | 16.9 | 430 |
| J | 23.2 | 590 |
| K | 19.9 | 505 |
| L | 46.4 | 1178 |
| M | 23.9 | 608 |
| N | 39.8 | 1010 |
| O | 7.9 | 200 |
| P | 47.2 | 1200 |
| Q | 34.3 | 870 |
| R | 32.5 | 825 |