

SUMMARY OF OECD TESTS 2506 & 2508 — NEBRASKA SUMMARY 739

NEW HOLLAND T5050 DIESEL

12 SPEED

POWER TAKE-OFF PERFORMANCE-2WD

| 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—1017 rpm) | | | | | |
| 85.8 (64.0) | 2299 | 5.48 (20.73) | 0.447 (0.272) | 15.68 (3.09) | |
| Standard Power Take-off speed (997 rpm) | | | | | |
| 85.4 (63.7) | 2254 | 5.37 (20.33) | 0.441 (0.268) | 15.89 (3.13) | |
| Maximum Power (1 hour) | | | | | |
| 87.2 (65.0) | 2003 | 5.02 (18.99) | 0.403 (0.245) | 17.41 (3.43) | |

VARYING POWER AND FUEL CONSUMPTION

| | | | | | |
|----------------|------|-----------------|------------------|-----------------|---------------------|
| 85.8 (64.0) | 2299 | 5.48 (20.73) | 0.447 (0.272) | 15.68 (3.09) | Air temperature |
| 78.7 (58.7) | 2471 | 5.53 (20.95) | 0.493 (0.300) | 14.21 (2.80) | 68°F (20°C) |
| 59.5 (44.4) | 2494 | 4.61 (17.44) | 0.543 (0.330) | 12.90 (2.54) | Relative humidity |
| 40.0 (29.8) | 2510 | 3.62 (13.71) | 0.636 (0.387) | 11.01 (2.17) | 55% |
| 20.2 (15.1) | 2528 | 2.71 (10.27) | 0.939 (0.571) | 7.46 (1.47) | Barometer |
| -- | 2557 | 1.97 (7.45) | -- | -- | 29.1" Hg (98.7 kPa) |

Maximum torque -309.3 lb.-ft. (419.3 Nm) at 902 rpm
 Maximum torque rise -57.8%
 Torque rise at 1800 engine rpm -27%

POWER TAKE-OFF PERFORMANCE - FWA

| 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—1016 rpm) | | | | | |
| 80.3 (59.9) | 2297 | 5.29 (20.02) | 0.462 (0.281) | 15.18 (2.99) | |
| Standard Power Take-off speed (1001 rpm) | | | | | |
| 81.1 (60.5) | 2263 | 5.24 (19.82) | 0.453 (0.275) | 15.48 (3.05) | |
| Maximum Power (1 hour) | | | | | |
| 83.3 (62.1) | 2003 | 4.90 (18.55) | 0.412 (0.251) | 17.00 (3.35) | |

VARYING POWER AND FUEL CONSUMPTION

| | | | | | |
|----------------|------|-----------------|------------------|-----------------|---------------------|
| 80.3 (59.9) | 2297 | 5.29 (20.02) | 0.462 (0.281) | 15.18 (2.99) | Air temperature |
| 73.2 (54.6) | 2460 | 5.33 (20.18) | 0.511 (0.311) | 13.71 (2.70) | 67°F (19°C) |
| 55.4 (41.3) | 2489 | 4.24 (16.06) | 0.537 (0.327) | 13.05 (2.57) | Relative humidity |
| 37.4 (27.9) | 2501 | 3.55 (13.43) | 0.664 (0.404) | 10.55 (2.08) | 45% |
| 18.8 (14.0) | 2516 | 2.73 (10.33) | 1.021 (0.621) | 6.87 (1.35) | Barometer |
| -- | 2555 | 2.06 (7.80) | -- | -- | 29.0" Hg (98.1 kPa) |

Maximum torque -293.9 lb.-ft. (398.5 Nm) at 900 rpm
 Maximum torque rise -60.0%
 Torque rise at 1800 engine rpm -24%

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

Dates of tests: November 2008 to February 2009
Manufacturer: CNH Italia SpA, Via Leone XIII, 160035, Jesi, Italy

FUEL and OIL: Fuel No. 2 Diesel **Specific gravity converted to 60°/60°F (15°/15°C)** 0.842 **Fuel weight** 7.01 lbs/gal (0.840 kg/l) **Oil** SAE 15W40 **API service classification** CH-4 **Transmission and hydraulic lubricant** Akcela Nexplore fluid **Front axle lubricant** Akcela Nexplore fluid

ENGINE: Make CNH Diesel **Type** four cylinder vertical with turbocharger and air to air intercooler **Serial No.** 573005 **Crankshaft** lengthwise **Rated engine speed** 2300 **Bore and stroke** 4.094" x 5.197" (104.0 mm x 132.0 mm) **Compression ratio** 17.0 to 1 **Displacement** 274 cu in (4485 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

CHASSIS: **Type** 2WD & front wheel assist **Serial No.** Z8JL07752 **Tread width** rear 56.3" (1430 mm) to 89.0" (2260 mm), front 2WD - 55.4" (1407 mm) to 85.6" (2175 mm), FWA-60.1" (1526 mm) to 70.3" (1786 mm) **Wheel base** 2WD - 92.2" (2342 mm), FWA - 92.5" (2350 mm) **Hydraulic control system** direct engine drive **Transmission** selective gear fixed ratio **Nominal travel speeds mph(km/h)** first 1.16 (1.87) second 1.69 (2.72) third 2.44 (3.92) fourth 2.72 (4.37) fifth 3.49 (5.61) sixth 3.95 (6.35) seventh 5.69 (9.15) eighth 6.39 (10.28) ninth 8.15 (13.11) tenth 9.28 (14.94) eleventh 13.38 (21.54) twelfth 19.17 (30.85) reverse 1.14 (1.83), 1.65 (2.66), 2.39 (3.84), 2.66 (4.28), 3.42 (5.50), 3.87 (6.22), 5.57 (8.97), 6.26 (10.08), 7.98 (12.84), 9.10 (14.64), 13.12 (21.11), 18.79 (30.24) **Clutch** dual dry disc operated by foot pedal **Brakes** wet disc hydraulically operated by two foot pedals which can be locked together **Steering** hydrostatic **Power take-off** 540 rpm at 2198 engine rpm or 1000 rpm at 2261 engine rpm **Unladen tractor mass** 2WD - 8005 lbs (3630 kg), FWA - 9125 lb (4140 kg)

T5050 - 2WD(30 kph transmission)
DRAWBAR PERFORMANCE
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) | Fuel Consumption Hp.hr/gal (kW.h/l) | Temp.°F (°C) cool- ing med | Air dry bulb | Barom. inch Hg (kPa) |
|--|--------------------------------|------------------------|---------------------------------|-----------|---|---|-------------------------------------|--------------------|-------------------------------|
| Maximum Power—7th(3 II)Gear | | | | | | | | | |
| 72.0 (53.7) | 4925 (21.91) | 5.48 (8.82) | 2295 | 7.4 | 0.533 (0.324) | 13.15 (2.59) | 187 (86) | 50 (10) | 29.1 (98.5) |
| 75% of Pull at Maximum Power—7th(3 II)Gear | | | | | | | | | |
| 59.1 (44.1) | 3640 (16.20) | 6.09 (9.80) | 2481 | 5.0 | 0.608 (0.370) | 11.52 (2.27) | 190 (88) | 54 (12) | 29.1 (98.6) |
| 50% of Pull at Maximum Power—7th(3 II)Gear | | | | | | | | | |
| 40.2 (30.0) | 2450 (10.90) | 6.15 (9.90) | 2503 | 4.0 | 0.704 (0.428) | 9.96 (1.96) | 192 (89) | 55 (13) | 29.1 (98.6) |
| 75% of Pull at Reduced Engine Speed—8th(1 III) Gear | | | | | | | | | |
| 59.3 (44.2) | 3640 (16.20) | 6.10 (9.82) | 2231 | 5.1 | 0.539 (0.328) | 12.99 (2.56) | 183 (84) | 52 (11) | 29.1 (98.6) |
| 50% of Pull at Reduced Engine Speed—8th(1 III) Gear | | | | | | | | | |
| 40.2 (30.0) | 2430 (10.80) | 6.21 (10.00) | 2236 | 3.9 | 0.670 (0.407) | 10.47 (2.06) | 190 (88) | 55 (13) | 29.1 (98.6) |

MAXIMUM POWER IN SELECTED GEARS

| | | | | | | | | | |
|-------------------------|-----------------|-----------------|------|------|------------------|-----------------|-------------|------------|----------------|
| 5th(4 I) Gear | | | | | | | | | |
| 58.7 (43.8) | 6265 (27.87) | 3.52 (5.66) | 2479 | 13.3 | 0.619 (0.377) | 11.32 (2.23) | 189 (87) | 43 (6) | 29.4 (99.6) |
| 6th(2 II) Gear | | | | | | | | | |
| 65.2 (48.6) | 6140 (27.31) | 3.98 (6.40) | 2472 | 10.5 | 0.591 (0.360) | 11.86 (2.34) | 187 (86) | 52 (11) | 29.4 (99.5) |
| 7th(3 II) Gear | | | | | | | | | |
| 74.0 (55.2) | 5590 (24.86) | 4.96 (7.99) | 2103 | 8.5 | 0.487 (0.296) | 14.39 (2.83) | 187 (86) | 54 (12) | 29.3 (99.3) |
| 8th(1 III) Gear | | | | | | | | | |
| 75.5 (56.3) | 5155 (22.92) | 5.49 (8.84) | 2055 | 7.6 | 0.478 (0.291) | 14.67 (2.89) | 187 (86) | 48 (9) | 29.3 (99.3) |
| 9th(4 II) Gear | | | | | | | | | |
| 74.7 (55.7) | 4155 (18.47) | 6.74 (10.85) | 1940 | 5.4 | 0.468 (0.284) | 14.99 (2.95) | 187 (86) | 48 (9) | 29.3 (99.3) |
| 10th(2 III) Gear | | | | | | | | | |
| 75.1 (56.0) | 3645 (16.21) | 7.73 (12.44) | 1945 | 4.9 | 0.467 (0.284) | 15.02 (2.96) | 185 (85) | 52 (11) | 29.3 (99.3) |

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 manufacturer's optional three point lift claim of 6805 lbs (3086 kg) was not verified. The performance results on this summary were taken from OECD tests conducted under the OECD Code 2 test procedure.

We, the undersigned, certify that this is a true summary of data from OECD Reports No. **2506** and **2508**, Nebraska summary 739, October 5, 2010.

Roger M. Hoy
Director

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Board of Tractor Test Engineers

New Holland T5050 - 2WD

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 600/65R34; **; 12 (80)
 Two 10:00-16; 8; 45 (310)
 19.5 in (495 mm)
 5380 lb (2440 kg)
 2790 lb (1265 kg)
 8170 lb (3705 kg)

**T5050 (40 kph transmission)
FRONT WHEEL ASSIST
unballasted - front drive engaged
DRAWBAR PERFORMANCE
FUEL CONSUMPTION CHARACTERISTICS**

| Power Hp (kW) | Drawbar pull lbs (kN) | Speed mph (km/h) | Crank- shaft speed rpm | Slip % | Fuel Consumption | | Temp. °F (°C) | | Barom. inch Hg (kPa) |
|--|--------------------------------|------------------------|---------------------------------|-----------|-----------------------|-----------------------|---------------------|--------------------|-------------------------------|
| | | | | | lb/hp.hr (kg/kW.h) | Hp.hr/gal (kW.h/l) | cool- ing med | Air dry bulb | |
| Maximum Power—6th (2 II) Gear | | | | | | | | | |
| 66.1 (49.3) | 5215 (23.21) | 4.75 (7.65) | 2297 | 4.3 | 0.562 (0.342) | 12.48 (2.46) | 187 (86) | 55 (13) | 28.8 (97.4) |
| 75% of Pull at Maximum Power—6th (2 II) Gear | | | | | | | | | |
| 53.9 (40.2) | 3910 (17.40) | 5.17 (8.32) | 2471 | 3.4 | 0.639 (0.389) | 10.96 (2.16) | 187 (86) | 52 (11) | 28.8 (97.4) |
| 50% of Pull at Maximum Power—6th (2 II) Gear | | | | | | | | | |
| 36.3 (27.1) | 2610 (11.60) | 5.22 (8.40) | 2495 | 2.6 | 0.752 (0.458) | 9.32 (1.84) | 187 (86) | 57 (14) | 28.8 (97.4) |
| 75% of Pull at Reduced Engine Speed—7th (3 II) Gear | | | | | | | | | |
| 54.2 (40.4) | 3935 (17.50) | 5.17 (8.31) | 1684 | 3.4 | 0.511 (0.311) | 13.71 (2.70) | 181 (83) | 59 (15) | 28.8 (97.4) |
| 50% of Pull at Reduced Engine Speed—7th (3 II) Gear | | | | | | | | | |
| 36.3 (27.1) | 2610 (11.60) | 5.22 (8.40) | 1687 | 2.6 | 0.557 (0.339) | 12.59 (2.48) | 181 (83) | 57 (14) | 28.8 (97.4) |

MAXIMUM POWER IN SELECTED GEARS

| | | | | | | | | | |
|------------------|-----------------|-----------------|------|------|------------------|-----------------|-------------|------------|----------------|
| 1st (1 I) Gear | | | | | | | | | |
| 29.5 (22.0) | 8120 (36.11) | 1.36 (2.19) | 2502 | 14.1 | 0.827 (0.503) | 8.47 (1.67) | 187 (86) | 57 (14) | 28.6 (97.0) |
| 2nd (2 I) Gear | | | | | | | | | |
| 43.0 (32.1) | 7960 (35.41) | 2.03 (3.26) | 2487 | 13.4 | 0.702 (0.427) | 9.99 (1.97) | 187 (86) | 52 (11) | 28.6 (97.0) |
| 3rd (3 I) Gear | | | | | | | | | |
| 61.6 (45.9) | 7765 (34.54) | 2.97 (4.78) | 2410 | 10.5 | 0.601 (0.366) | 11.66 (2.30) | 187 (86) | 57 (14) | 28.6 (97.0) |
| 4th (1 II) Gear | | | | | | | | | |
| 63.2 (47.1) | 7755 (34.49) | 3.06 (4.92) | 2322 | 10.2 | 0.588 (0.357) | 11.93 (2.35) | 187 (86) | 57 (14) | 28.6 (97.0) |
| 5th (4 I) Gear | | | | | | | | | |
| 67.8 (50.6) | 6795 (30.23) | 3.74 (6.02) | 1969 | 6.5 | 0.502 (0.305) | 13.96 (2.75) | 185 (85) | 63 (17) | 28.6 (97.0) |
| 6th (2 II) Gear | | | | | | | | | |
| 68.8 (51.3) | 6390 (28.43) | 4.04 (6.50) | 1977 | 5.5 | 0.493 (0.300) | 14.21 (2.80) | 185 (85) | 57 (14) | 28.6 (97.0) |
| 7th (3 II) Gear | | | | | | | | | |
| 67.8 (50.6) | 4260 (18.96) | 5.97 (9.60) | 1934 | 3.7 | 0.499 (0.303) | 14.06 (2.77) | 183 (84) | 55 (13) | 28.6 (97.0) |
| 8th (1 III) Gear | | | | | | | | | |
| 68.9 (51.4) | 4070 (18.11) | 6.35 (10.21) | 1920 | 3.5 | 0.486 (0.296) | 14.42 (2.84) | 185 (85) | 59 (15) | 28.6 (97.0) |
| 9th (4 II) Gear | | | | | | | | | |
| 68.0 (50.7) | 2905 (12.92) | 8.77 (14.12) | 1928 | 3.0 | 0.496 (0.302) | 14.14 (2.79) | 187 (86) | 57 (14) | 28.6 (97.0) |

New Holland T5050 - Front Wheel Assist

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 600/65R34; **, 12 (80)
 Two 480/65R24; **, 12 (80)
 19.1 in (485 mm)
 5490 lb (2490 kg)
 3805 lb (1725 kg)
 9295 lb (4215 kg)

| TRACTOR SOUND LEVEL WITH CAB | FWA dB(A) | 2WD dB(A) |
|-------------------------------|--------------|--------------|
| At no load in 6th (2 II) gear | 80.4 | 80.4 |
| Bystander | -- | -- |

HYDRAULIC PERFORMANCE

CATEGORY: II

Quick Attach: None

OECD Static test

| | | |
|---|-----------------------|-----------------------|
| Maximum force exerted through whole range: | 4180 lbs (18.6 kN) | |
| | | <u>Combined flow</u> |
| i) Sustained pressure with relief valve open: | 2900 psi (200 bar) | 2685 psi (185 bar) |
| ii) Pump delivery rate at minimum pressure: | 17.5 GPM (66.1 l/min) | 21.3 GPM (80.8 l/min) |
| iii) Pump delivery rate at maximum | | |
| hydraulic power: | 13.5 GPM (51.1 l/min) | 19.7 GPM (74.7 GPM) |
| Delivery pressure: | 2685 psi (185 bar) | 2030 psi (140 bar) |
| Power: | 21.2 hp (15.8 kW) | 23.3 hp (17.4 kW) |

HITCH DIMENSIONS AS TESTED—NO LOAD

| | SAE TEST | | OECD TEST | |
|---|----------|------|-----------|------|
| | inch | mm | inch | mm |
| A | 26.1 | 664 | 26.5 | 674 |
| B | 10.0 | 255 | 10.0 | 255 |
| C | 13.9 | 352 | 13.9 | 352 |
| D | 11.7 | 296 | 11.7 | 296 |
| E | 13.3 | 337 | 10.1 | 257 |
| F | 8.1 | 205 | 8.1 | 205 |
| G | 30.5 | 775 | 30.5 | 775 |
| H | 0.6 | 16 | 0.6 | 16 |
| I | 15.7 | 400 | 15.7 | 400 |
| J | 22.4 | 570 | 22.4 | 570 |
| K | 20.7 | 526 | 17.7 | 450 |
| L | 42.1 | 1070 | 42.1 | 1070 |
| M | 21.6 | 548 | 21.6 | 548 |
| N | 37.0 | 940 | 37.0 | 940 |
| O | 9.6 | 245 | 7.9 | 200 |
| P | 41.5 | 1053 | 46.5 | 1180 |
| Q | 42.1 | 1069 | 36.2 | 920 |
| R | 25.2 | 640 | 24.4 | 620 |

THREE POINT HITCH PERFORMANCE (SAE Static Test)

| | |
|--------------------------------------|----------------|
| Observed maximum pressure psi. (bar) | 2900 (200) |
| Location: | remote outlets |
| Hydraulic oil temperature: °F (°C) | 131 (55) |
| Location: | hydraulic sump |
| Category: | II |
| Quick attach: | none |

System pressure 2610 psi (180 Bar)

| | | | | | |
|---|-----------|------------|------------|------------|------------|
| Hitch point distance to ground level in. (mm) | 9.7 (246) | 16.5 (420) | 22.4 (570) | 28.3 (720) | 36.2 (920) |
| Lift force on frame lb | 9260 | 7935 | 7285 | 7170 | 6295 |
| " " " " " " (kN) | (41.2) | (35.3) | (32.4) | (31.9) | (28.0) |

