

SUMMARY OF OECD TEST 2450–NEBRASKA SUMMARY 691 NEW HOLLAND T6070 PLUS DIESEL 16 SPEED

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—1037 rpm)					
128.1 (95.5)	2197	7.95 (30.08)	0.437 (0.265)	16.09 (3.17)	
Maximum Power - (1 hour)					
128.6 (95.9)	2121	7.83 (29.65)	0.427 (0.260)	16.40 (3.23)	
Standard Power Take-off Speed (1000 rpm)					
128.6 (95.9)	2121	7.83 (29.65)	0.427 (0.260)	16.40 (3.23)	
VARYING POWER AND FUEL CONSUMPTION					
128.1 (95.5)	2197	7.95 (30.08)	0.436 (0.265)	16.09 (3.17)	Air temperature
116.1 (86.6)	2341	7.49 (28.37)	0.453 (0.275)	15.48 (3.05)	65°F (18°C)
87.7 (65.4)	2356	6.25 (23.65)	0.499 (0.304)	14.05 (2.77)	Relative humidity
58.7 (43.8)	2369	4.76 (18.00)	0.568 (0.345)	12.34 (2.43)	58%
29.6 (22.1)	2394	3.24 (12.27)	0.766 (0.466)	9.15 (1.80)	Barometer
--	2416	2.15 (8.14)	--	--	29.4" Hg (99.6 kPa)

Maximum Torque - 488.7 lb.-ft. (662.6 Nm) at 1000 rpm
Maximum Torque Rise - 59.7%
Torque rise at 1800 engine rpm - 19%

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—7th (7B) Gear									
104.2 (77.7)	7865 (34.98)	4.97 (8.00)	2201	2.0	0.534 (0.325)	13.14 (2.59)	189 (87)	37 (3)	29.4 (99.7)
75% of Pull at Maximum Power—7th (7B) Gear									
84.4 (63.0)	5895 (26.23)	5.37 (8.64)	2344	1.1	0.597 (0.363)	11.74 (2.31)	189 (87)	37 (3)	29.4 (99.7)
50% of Pull at Maximum Power—7th (7B) Gear									
57.3 (42.7)	3950 (17.57)	5.44 (8.75)	2361	0.4	0.688 (0.419)	10.18 (2.01)	189 (87)	39 (4)	29.4 (99.7)
75% of Pull at Reduced Engine Speed—8th (9C) Gear									
84.6 (63.1)	5910 (26.28)	5.37 (8.64)	2107	1.1	0.539 (0.328)	12.99 (2.56)	187 (86)	37 (3)	29.4 (99.7)
50% of Pull at Reduced Engine Speed—8th (9C) Gear									
56.3 (42.0)	3880 (17.26)	5.44 (8.75)	2134	0.4	0.616 (0.375)	11.37 (2.24)	187 (86)	39 (4)	29.4 (99.7)

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

Dates of tests: December 2007 to May 2008.

Manufacturer: CNH Europe Holding S.A. 13, Rue Aldringen L-1118 Luxembourg

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** six cylinder vertical with turbocharger and air to air intercooler **Serial No.** 457485 **Crankshaft** lengthwise **Rated engine speed** 2200 **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.** Z7BD04368 **Tread width** rear 56.3" (1430 mm) to 83.9" (2130 mm) front 52.2" (1325 mm) to 90.0" (2285 mm) **Wheelbase** 104.8" (2661 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 1.41 (2.27) second 1.73 (2.78) third 2.11 (3.39) fourth 2.58 (4.15) fifth 3.31 (5.32) sixth 4.06 (6.53) seventh 4.94 (7.95) eighth 5.51 (8.86) ninth 6.06 (9.75) tenth 6.75 (10.87) eleventh 8.23 (13.24) twelfth 10.09 (16.24) thirteenth 12.94 (20.82) fourteenth 15.87 (25.54) fifteenth 19.32 (31.09) sixteenth 23.70 (38.14) reverse 1.39 (2.24), 1.71 (2.75), 2.08 (3.35), 2.55 (4.10), 3.27 (5.26), 4.01 (6.45), 4.88 (7.86), 5.44 (8.76), 5.99 (9.64), 6.67 (10.74), 8.13 (13.08), 9.97 (16.05), 12.78 (20.57), 15.68 (25.24), 19.20 (30.73), 23.43 (37.70) **Clutch** wet disc electro-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 2120 engine rpm **Unladen tractor mass** 13130 lb (5955 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. °F(°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
1st(1A) Gear									
45.2 (33.7)	13005 (57.84)	1.30 (2.10)	2372	15.5	0.680 (0.413)	10.31 (2.03)	187 (86)	41 (5)	29.5 (99.8)
2nd(2A) Gear									
57.4 (42.8)	12590 (56.00)	1.71 (2.75)	2366	9.2	0.617 (0.376)	11.36 (2.24)	189 (87)	39 (4)	29.5 (99.8)
3rd(3A) Gear									
68.7 (51.2)	12215 (54.33)	2.11 (3.39)	2355	8.4	0.606 (0.369)	11.56 (2.28)	187 (86)	37 (3)	29.5 (99.8)
4th(4A) Gear									
83.3 (62.1)	12110 (53.86)	2.58 (4.15)	2350	7.8	0.564 (0.343)	12.44 (2.45)	187 (86)	37 (3)	29.5 (99.8)
5th(5B) Gear									
103.1 (76.9)	11705 (52.06)	3.30 (5.32)	2292	6.5	0.519 (0.316)	13.50 (2.66)	187 (86)	37 (3)	29.5 (99.8)
6th(6B) Gear									
109.6 (81.7)	10895 (48.47)	3.77 (6.07)	2125	5.4	0.501 (0.305)	14.00 (2.76)	185 (85)	36 (2)	29.5 (99.8)
7th(7B) Gear									
106.7 (79.6)	8400 (37.37)	4.76 (7.67)	2115	3.1	0.514 (0.313)	13.64 (2.69)	185 (85)	36 (2)	29.5 (99.8)
8th(9C) Gear									
108.0 (80.5)	7640 (33.99)	5.30 (8.53)	2121	2.6	0.508 (0.309)	13.81 (2.72)	189 (87)	36 (2)	29.5 (99.8)
9th(8B) Gear									
106.5 (79.4)	6835 (30.41)	5.84 (9.40)	2117	2.4	0.516 (0.314)	13.59 (2.68)	185 (85)	36 (2)	29.5 (99.8)
10th(10C) Gear									
107.3 (80.0)	6120 (27.23)	6.57 (10.57)	2116	2.0	0.511 (0.311)	13.71 (2.70)	185 (85)	36 (2)	29.5 (99.8)
11th(11C) Gear									
101.9 (76.0)	4760 (21.17)	8.03 (12.92)	2117	1.5	0.539 (0.328)	12.99 (2.56)	185 (85)	36 (2)	29.5 (99.8)
12th(12C) Gear									
98.9 (73.8)	3750 (16.68)	9.89 (15.92)	2120	1.2	0.555 (0.338)	12.63 (2.49)	183 (84)	36 (2)	29.5 (99.8)

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 12185 lbs (5527 kg) nor cab sound level claim of 72.0 dB(A). 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. **2450**, Nebraska Summary 691, January 14, 2010.

Roger M. Hoy
Director

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

TRACTOR SOUND LEVEL WITH CAB	Front Wheel Drive	
	Disengaged dB(A)	Engaged dB(A)
At no load in 7th (7B) gear	71.1	72.3
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)
 17.3 in (440 mm)
 8135 lb (3690 kg)
 5160 lb (2340 kg)
 13295 lb (6030 kg)

HYDRAULIC PERFORMANCE

CATEGORY: III

Quick Attach: None

OECD Static test

lift cylinders

Maximum force exerted through whole range: 7665 lbs (34.1 kN) (2 x 90 mm)

i) Sustained pressure of the open relief valve: 3045 psi (210 bar)

ii) Pump delivery rate at minimum pressure: 29.7 GPM (112.5 l/min)

iii) Pump delivery rate at maximum

hydraulic power: 25.2 GPM (95.4 l/min)

Delivery pressure: 2610 psi (180 bar)

Power: 38.4 HP (28.6 kW)

THREE POINT HITCH PERFORMANCE

Observed Maximum Pressure psi. (bar) 3045 (210)

Location: lift cylinder

Hydraulic oil temperature: °F (°C) 150 (66)

Location: hydraulic sump

Category: III

Quick attach: None

SAE Static Test—System pressure 2740 psi (189 Bar)
lift cylinders - 2 x 90 mm

Hitch point distance to ground level in. (mm)	7.9 (200)	13.8 (400)	23.0 (585)	29.9 (770)	38.4 (970)
Lift force on frame lb	13760	12950	12655	12275	11105
" " " " " " (kN)	(61.2)	(57.6)	(56.3)	(54.6)	(49.4)

HITCH DIMENSIONS AS TESTED—NO LOAD

	OECD test		SAE test	
	inch	mm	inch	mm
A	30.3	770	30.7	781
B	12.2	310	12.2	310
C	15.6	395	15.6	395
D	14.6	370	14.6	370
E	7.9	200	9.8	250
F	9.3	235	9.3	235
G	32.3	820	32.3	820
H	1.0	25	1.0	25
I	16.9	430	15.6	395
J	23.0	585	23.0	585
K	19.9	505	23.0	585
L	46.4	1178	46.4	1178
M	24.5	623	24.5	623
N	39.8	1010	39.8	1010
O	7.9	200	7.9	200
P	50.0	1270	45.0	1144
Q	35.6	905	33.1	842
R	32.3	821	34.1	865

