

SUMMARY OF OECD TEST 2462-NEBRASKA SUMMARY 683

NEW HOLLAND T6040 ELITE AS 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—1038 rpm)					
101.9 (76.0)	2200	6.47 (24.49)	0.446 (0.271)	15.74 (3.10)	
Standard Power Take-off Speed (1000 rpm)					
107.0 (79.8)	2119	6.60 (24.99)	0.433 (0.263)	16.20 (3.19)	
Maximum Power - (1 hour)					
117.9 (87.9)	1901	6.77 (25.61)	0.403 (0.245)	17.41 (3.43)	

VARYING POWER AND FUEL CONSUMPTION

101.9 (76.0)	2200	6.47 (24.49)	0.446 (0.271)	15.74 (3.10)	Air temperature
88.8 (66.2)	2257	6.02 (22.80)	0.475 (0.289)	14.75 (2.91)	64°F (18°C)
67.5 (50.3)	2280	5.02 (18.99)	0.521 (0.317)	13.45 (2.65)	Relative humidity
45.6 (34.0)	2303	3.95 (14.95)	0.606 (0.369)	11.55 (2.28)	41%
23.1 (17.2)	2327	2.84 (10.74)	0.860 (0.523)	8.15 (1.61)	Barometer
--	2354	1.97 (7.45)	--	--	29.3" Hg (99.2 kPa)

Maximum Torque - 388.5 lb.-ft. (526.7 Nm) at 1401 rpm

Maximum Torque Rise - 59.7%

Torque rise at 1800 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—9th (8B) Gear									
81.0 (60.4)	5035 (22.39)	6.03 (9.71)	2195	1.8	0.561 (0.341)	12.49 (2.46)	187 (86)	77 (25)	28.9 (97.9)
75% of Pull at Maximum Power—9th (8B) Gear									
62.9 (46.9)	3745 (16.66)	6.30 (10.14)	2261	1.2	0.670 (0.408)	10.46 (2.06)	187 (86)	77 (25)	28.9 (97.9)
50% of Pull at Maximum Power—9th (8B) Gear									
43.2 (32.2)	2545 (11.31)	6.37 (10.25)	2295	0.7	0.787 (0.479)	8.90 (1.75)	187 (86)	73 (23)	28.9 (97.9)
75% of Pull at Reduced Engine Speed—10th (10C) Gear									
62.9 (46.9)	3745 (16.65)	6.30 (10.14)	2028	1.2	0.578 (0.352)	12.12 (2.39)	185 (85)	72 (22)	28.9 (97.9)
50% of Pull at Reduced Engine Speed—10th (10C) Gear									
43.0 (32.1)	2535 (11.27)	6.37 (10.25)	2045	0.8	0.704 (0.428)	9.96 (1.96)	185 (85)	73 (23)	28.9 (97.9)

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

Dates of tests: December 2007 to June, 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 Nexplora fluid Front axle lubricant Akcela Nexplora fluid

ENGINE: Make CNH Diesel Type four cylinder vertical with turbocharger and air to air intercooler Serial No. 333045 Crankshaft lengthwise Rated engine speed 2200 Bore and stroke 4.094" x 5.197" (104.0 mm x 132.0 mm) Compression ratio 16.5 to 1 Displacement 274 cu in (4485 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. Z6BD01003 Tread width rear 56.3" (1430 mm) to 83.9" (2130 mm) front 52.2" (1325 mm) to 90.0" (2285 mm) Wheelbase 95.3" (2421 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 2.10 (3.38) 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), 19.10 (30.73), 23.43 (37.70) 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 2120 engine rpm Unladen tractor mass 12465 lb (5655 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)	Temp. ^o F(°C) cool- ing med	Barom. inch Hg (kPa)		
1st(1A) Gear									
44.3 (33.0)	12525 (55.71)	1.33 (2.13)	2298	12.0	0.727 (0.442)	9.64 (1.90)	187 (86)	77 (25)	28.9 (97.9)
2nd(2A) Gear									
54.7 (40.8)	12425 (55.27)	1.65 (2.66)	2286	9.6	0.648 (0.394)	10.81 (2.13)	187 (86)	79 (26)	28.9 (97.9)
3rd(3A) Gear									
65.4 (48.8)	12115 (53.90)	2.03 (3.26)	2271	8.5	0.608 (0.370)	11.52 (2.27)	187 (86)	79 (26)	28.9 (97.9)
4th(4A) Gear									
78.7 (58.7)	12095 (53.79)	2.44 (3.93)	2230	8.2	0.578 (0.351)	12.13 (2.39)	187 (86)	77 (25)	28.9 (97.9)
5th(5B) Gear									
91.6 (68.3)	12280 (54.63)	2.80 (4.50)	1992	8.7	0.516 (0.314)	13.59 (2.68)	185 (85)	77 (25)	28.9 (97.9)
6th(6B) Gear									
99.1 (73.9)	11015 (49.01)	3.37 (5.43)	1901	5.5	0.479 (0.291)	14.63 (2.88)	185 (85)	77 (25)	28.9 (97.9)
7th(7B) Gear									
96.7 (72.1)	8560 (38.08)	4.24 (6.82)	1900	3.4	0.488 (0.297)	14.37 (2.83)	185 (85)	81 (27)	28.9 (97.9)
8th(9C) Gear									
99.5 (74.2)	7835 (34.85)	4.76 (7.67)	1897	2.8	0.474 (0.288)	14.78 (2.91)	185 (85)	77 (25)	28.9 (97.9)
9th(8B) Gear									
98.0 (73.1)	6940 (30.86)	5.30 (8.53)	1911	2.4	0.485 (0.295)	14.47 (2.85)	185 (85)	77 (25)	28.9 (97.9)
10th(10C) Gear									
99.4 (74.1)	6245 (27.78)	5.97 (9.60)	1921	2.1	0.476 (0.290)	14.72 (2.90)	185 (85)	77 (25)	28.9 (97.9)
11th(11C) Gear									
96.2 (71.7)	4985 (22.19)	7.23 (11.64)	1898	1.4	0.493 (0.300)	14.21 (2.80)	185 (85)	73 (23)	28.9 (97.9)
12th(12C) Gear									
94.5 (70.5)	3955 (17.59)	8.96 (14.42)	1908	0.9	0.500 (0.304)	14.01 (2.76)	187 (86)	75 (24)	28.9 (97.9)

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 70.0 dB(A). 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. **2462**, Nebraska Summary 683, January 8, 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	69.7	70.9
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)

7760 lb (3520 kg)

4870 lb (2210 kg)

12630 lb (5730 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	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)					
121.9 (90.9)	2197	7.43 (28.13)	0.427 (0.260)	16.40 (3.23)	
Standard Power Take-off Speed (1001 rpm)					
123.2 (91.9)	2121	7.45 (28.20)	0.424 (0.258)	16.53 (3.26)	
Maximum Power - (1 hour)					
128.3 (95.7)	1901	7.30 (27.64)	0.399 (0.243)	17.57 (3.46)	

VARYING POWER AND FUEL CONSUMPTION

121.9 (90.9)	2197	7.43 (28.13)	0.427 (0.260)	16.40 (3.23)	Air temperature
105.4 (78.6)	2238	6.71 (25.39)	0.446 (0.271)	15.72 (3.10)	64°F (18°C)
80.1 (59.7)	2267	5.60 (21.19)	0.490 (0.298)	14.31 (2.82)	Relative humidity
54.3 (40.5)	2295	4.39 (16.61)	0.566 (0.345)	12.38 (2.44)	52%
27.4 (20.4)	2322	3.04 (11.52)	0.779 (0.474)	8.99 (1.77)	Barometer
--	2348	1.98 (7.49)	--	--	29.4" Hg (99.4 kPa)

Maximum Torque - 390.5 lb.-ft. (529.5 Nm) at 1399 rpm
 Maximum Torque Rise - 34.1%
 Torque rise at 1800 engine rpm - 27%

HYDRAULIC PERFORMANCE

CATEGORY: III

Quick Attach: None

OECD Static test

Maximum force exerted through whole range: 7735 lbs (34.4 kN) (2x90 mm)

i) Opening pressure of relief valve: NA

Sustained pressure of the open relief valve: 2990 psi (206 bar)

ii) Pump delivery rate at minimum pressure: 28.5 GPM (107.9 l/min)

iii) Pump delivery rate at maximum

hydraulic power: 26.5 GPM (100.2 l/min)

Delivery pressure: 2465 psi (170 bar)

Power: 38.1 HP (28.4 kW)

THREE POINT HITCH PERFORMANCE

Observed Maximum Pressure psi.(bar)

3000(207)

Location:

lift cylinder

Hydraulic oil temperature: °F(°C)

150(66)

Location:

hydraulic sump

Category:

II

Quick attach:

None

SAE Static Test—System pressure 2715 psi (187 Bar)

Hitch point distance to ground level in. (mm)	7.9(200)	15.7(400)	23.0(585)	31.5(800)	39.4(1000)
Lift force on frame lb	14655	13375	13060	12520	11355
" " " " " (kN)	(65.2)	(59.5)	(58.1)	(55.7)	(50.5)

HITCH DIMENSIONS AS TESTED—NO LOAD

	OECD test		SAE test	
	inch	mm	inch	mm
A	30.3	770	31.0	788
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	1.2	30	1.2	30
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	36.8	935	34.3	872
R	32.3	820	34.1	867

