

SUMMARY OF OECD TEST 2708—NEBRASKA SUMMARY 861

NEW HOLLAND T6.175 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)						
129.7 (96.8)	2100	7.54 (28.55)	0.405 (0.247)	17.19 (3.39)	0.35 (1.32)	
Standard Power Take-off Speed (1000 rpm)						
138.5 (103.3)	1893	7.58 (28.69)	0.381 (0.232)	18.27 (3.60)	0.36 (1.36)	
Maximum Power (1 hour)						
139.2 (103.8)	1800	7.53 (28.50)	0.376 (0.229)	18.48 (3.64)	0.34 (1.30)	

VARYING POWER AND FUEL CONSUMPTION

129.7 (96.8)	2100	7.54 (28.55)	0.406 (0.247)	17.19 (3.39)	0.35 (1.32)	Air temperature
111.0 (82.8)	2114	6.71 (25.40)	0.421 (0.256)	16.55 (3.26)	0.29 (1.10)	75°F (24°C)
84.1 (62.7)	2135	5.49 (20.77)	0.455 (0.277)	15.32 (3.02)	0.24 (0.89)	Relative humidity
56.5 (42.1)	2156	4.39 (16.62)	0.543 (0.330)	12.85 (2.53)	0.16 (0.60)	60%
28.7 (21.4)	2171	3.02 (11.41)	0.734 (0.447)	9.51 (1.87)	0.09 (0.33)	Barometer
---	2194	2.07 (7.83)	---	---	---	29.2" Hg (98.9 kPa)

Maximum torque - 425 lb.-ft. (576 Nm) at 1500 rpm
 Maximum torque rise - 31.0%
 Torque rise at 1700 engine rpm - 28%
 Power increase at 1800 engine rpm - 7%

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 Gear									
96.6 (72.0)	7530 (33.5)	4.81 (7.74)	2100	4.8	0.540 (0.329)	12.89 (2.54)	183 (84)	82 (28)	28.8 (97.6)
75% of Pull at Maximum Power—7th Gear									
74.6 (55.6)	5645 (25.1)	4.96 (7.98)	2139	3.6	0.603 (0.367)	11.56 (2.28)	185 (85)	82 (28)	28.8 (97.6)
50% of Pull at Maximum Power—7th Gear									
50.7 (37.8)	3755 (16.7)	5.06 (8.14)	2161	2.6	0.723 (0.440)	9.64 (1.90)	185 (85)	82 (28)	28.8 (97.6)
75% of Pull at Reduced Engine Speed—8th Gear									
74.6 (55.6)	5685 (25.3)	4.92 (7.91)	1904	3.7	0.550 (0.335)	12.67 (2.50)	183 (84)	82 (28)	28.8 (97.6)
50% of Pull at Reduced Engine Speed—8th Gear									
50.6 (37.7)	3755 (16.7)	5.05 (8.12)	1933	2.6	0.645 (0.393)	10.80 (2.13)	183 (84)	82 (28)	28.8 (97.6)

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

Dates of tests: May to June, 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. 882721 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. ZBBD01001 Tread width rear 56.3" (1430 mm) to 84.0" (2134 mm) front 61.4" (1560 mm) to 88.8" (2256 mm) Wheelbase 105.5" (2679 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 1.44 (2.31) second 1.76 (2.83) third 2.14 (3.45) fourth 2.63 (4.23) fifth 3.37 (5.42) sixth 4.13 (6.65) seventh 5.03 (8.10) eighth 5.60 (9.02) ninth 6.17 (9.93) tenth 6.88 (11.07) eleventh 8.37 (13.47) twelfth 10.27 (16.53) thirteenth 13.17 (21.19) fourteenth 16.16 (26.00) fifteenth 19.67 (31.66) sixteenth 25.28 (40.68) seventeenth 25.28 (40.68) electronically limited reverse 1.42 (2.28), 1.74 (2.80), 2.12 (3.41), 2.60 (4.18), 3.33 (5.36), 4.08 (6.57), 4.97 (8.00), 5.54 (8.92), 6.10 (9.81), 6.80 (10.94), 8.28 (13.32), 10.15 (16.34), 13.02 (20.95), 15.96 (25.69), 19.44 (31.29), 23.85 (38.38)

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 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)
71.1 (53.0)	11380 (50.6)	2.34 (3.77)	2141	14.7	4th Gear 0.592 (0.360)	11.78 (2.32)	185 (85)	81 (27)	28.9 (97.9)
92.5 (69.0)	11370 (50.6)	3.05 (4.91)	2116	11.6	5th Gear 0.542 (0.330)	12.84 (2.53)	185 (85)	79 (26)	28.9 (97.9)
105.0 (78.3)	11150 (49.6)	3.53 (5.68)	1952	9.0	6th Gear 0.508 (0.309)	13.70 (2.70)	185 (85)	79 (26)	28.9 (98.0)
105.7 (78.8)	9665 (43.0)	4.10 (6.60)	1810	6.0	7th Gear 0.483 (0.294)	14.42 (2.84)	184 (84)	79 (26)	28.9 (98.0)
107.5 (80.2)	8830 (39.3)	4.57 (7.35)	1805	5.8	8th Gear 0.472 (0.287)	14.77 (2.91)	185 (85)	81 (27)	28.9 (97.7)
107.8 (80.4)	8005 (35.6)	5.05 (8.13)	1802	5.1	9th Gear 0.475 (0.289)	14.67 (2.89)	184 (84)	81 (27)	28.9 (97.7)
110.0 (82.0)	7310 (32.5)	5.64 (9.08)	1799	4.6	10th Gear 0.483 (0.294)	14.42 (2.84)	185 (85)	82 (28)	28.9 (97.7)
104.5 (77.9)	5645 (25.1)	6.94 (11.17)	1798	3.6	11th Gear 0.487 (0.297)	14.29 (2.82)	184 (84)	82 (28)	28.9 (97.7)
103.4 (77.1)	4520 (20.1)	8.58 (13.80)	1800	2.9	12th Gear 0.487 (0.296)	14.31 (2.82)	184 (84)	82 (28)	28.9 (97.7)

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 1593 engine rpm or 1000 rpm at 1894 engine rpm
Unladen tractor mass 13580 lb (6160 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 13486 lbs (6109 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. **2708**, Nebraska Summary 861, 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	69.9	71.1
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 650/65R38; **,12 (80)
 Two 540/65R28; **,12 (80)
 20.7 in (525 mm)
 8280 lb (3755 kg)
 5465 lb (2480 kg)
 13745 lb (6235 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)						
144.7 (107.9)	2100	8.29 (31.40)	0.399 (0.243)	17.45 (3.44)	0.42 (1.58)	
Standard Power Take-off Speed (1000 rpm)						
151.5 (113.0)	1893	8.31 (31.46)	0.382 (0.232)	18.23 (3.59)	0.40 (1.50)	
Maximum Power (1 hour)						
153.4 (114.4)	1800	8.29 (31.38)	0.376 (0.229)	18.51 (3.65)	0.38 (1.43)	

VARYING POWER AND FUEL CONSUMPTION

144.7 (107.9)	2100	8.29 (31.40)	0.399 (0.243)	17.45 (3.44)	0.42 (1.58)	Air temperature
130.5 (97.3)	2226	7.81 (29.58)	0.417 (0.254)	16.70 (3.29)	0.36 (1.37)	79°F (26°C)
99.0 (73.8)	2253	6.46 (24.46)	0.455 (0.277)	15.32 (3.02)	0.27 (1.03)	Relative humidity
66.5 (49.6)	2275	4.89 (18.49)	0.512 (0.312)	13.60 (2.68)	0.18 (0.70)	55%
33.7 (25.1)	2292	3.40 (12.85)	0.703 (0.427)	9.91 (1.95)	0.11 (0.41)	Barometer
---	2313	2.34 (8.87)	---	---	---	29.2" Hg (98.9 kPa)

Maximum torque - 477 lb.-ft. (647 Nm) at 1500 rpm
 Maximum torque rise - 31.8%
 Torque rise at 1700 engine rpm - 26%
 Power increase at 1800 engine rpm - 6%

HYDRAULIC PERFORMANCE

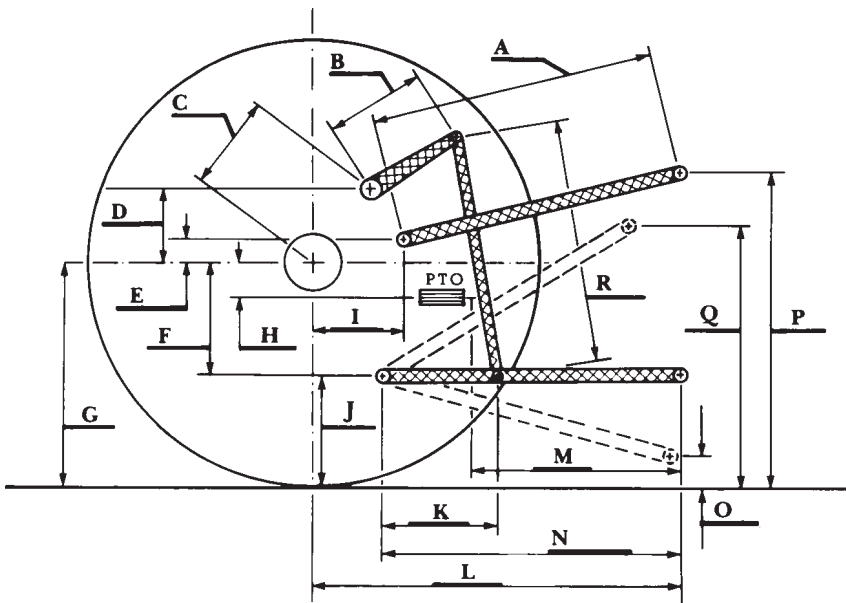
CATEGORY: II

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: 2975 psi (205 bar)
- ii) Pump delivery rate at minimum pressure: 27.0 GPM (102.1 l/min)
- iii) Pump delivery rate at maximum
 - hydraulic power: 24.8 GPM (94.1 l/min)
 - Delivery pressure: 2685 psi (185 bar)
 - Power: 38.9 HP (29.0 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