

SUMMARY OF OECD TEST 2472-NEBRASKA SUMMARY 675

NEW HOLLAND T6070 ELITE PC DIESEL

18 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)					
121.5 (90.6)	2197	7.59 (28.71)	0.438 (0.266)	16.01 (3.15)	
Standard Power Take-off Speed (999 rpm)					
125.4 (93.5)	2117	7.63 (28.89)	0.427 (0.260)	16.43 (3.24)	
Maximum Power - (1 hour)					
137.5 (102.5)	1797	7.63 (28.89)	0.389 (0.237)	18.01 (3.55)	
VARYING POWER AND FUEL CONSUMPTION					
121.5 (90.6)	2197	7.59 (28.71)	0.438 (0.266)	16.01 (3.15)	Air temperature
105.8 (78.9)	2261	7.18 (27.18)	0.476 (0.289)	14.73 (2.90)	68°F (20°C)
80.7 (60.2)	2289	6.10 (23.08)	0.529 (0.322)	13.24 (2.61)	Relative humidity
53.8 (40.1)	2305	4.69 (17.77)	0.611 (0.372)	11.47 (2.26)	50%
27.4 (20.4)	2325	3.50 (13.26)	0.897 (0.545)	7.82 (1.54)	Barometer
--	2354	2.32 (8.79)	--	--	29.3" Hg (99.1 kPa)
Maximum Torque - 441.0 lb.-ft. (597.9 Nm) at 1201 rpm					
Maximum Torque Rise - 51.9%					
Torque rise at 1797 engine rpm - 38%					

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(3Med) Gear									
99.9 (74.5)	7350 (32.7)	5.10 (8.20)	2200	2.3	0.529 (0.322)	13.25 (2.61)	189 (87)	48 (9)	28.9 (97.9)
75% of Pull at Maximum Power—9th(3Med) Gear									
77.2 (57.6)	5530 (24.6)	5.24 (8.43)	2265	1.9	0.603 (0.367)	11.62 (2.29)	189 (87)	46 (8)	28.9 (97.9)
50% of Pull at Maximum Power—9th(3Med) Gear									
51.8 (38.6)	3665 (16.3)	5.30 (8.53)	2290	1.2	0.811 (0.493)	8.64 (1.70)	190 (88)	46 (8)	28.9 (97.9)
75% of Pull at Reduced Engine Speed—10th(4Med) Gear									
76.8 (57.3)	5510 (24.5)	5.23 (8.42)	1885	1.8	0.542 (0.329)	12.94 (2.55)	190 (88)	45 (7)	28.9 (97.9)
50% of Pull at Reduced Engine Speed—10th(4Med) Gear									
51.8 (38.6)	3665 (16.3)	5.30 (8.53)	1893	1.1	0.622 (0.378)	11.27 (2.22)	190 (88)	45 (7)	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: September 2008 to January 2009.

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 Nexplere fluid Front axle lubricant Akcela Nexplere fluid

ENGINE: Make CNH Diesel Type six cylinder vertical with turbocharger and air to air intercooler Serial No. 512895 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. Z7BK06897 Tread width rear 56.3" (1430 mm) to 97.4" (2173 mm) front 52.2" (1325 mm) to 90.0" (2285 mm) Wheelbase 109.7" (2786 mm) Hydraulic control system direct engine drive Transmission selective gear fixed ratio with partial (6) range operator controlled powershift Nominal travel speeds mph (km/h) first 1.57 (2.52) second 1.88 (3.03) third 2.26 (3.64) fourth 2.72 (4.38) fifth 3.20 (5.15) sixth 3.64 (5.86) seventh 3.85 (6.19) eighth 4.37 (7.04) ninth 5.26 (8.46) tenth 6.33 (10.18) eleventh 7.43 (11.96) twelfth 8.94 (14.38) thirteenth 10.33 (16.62) fourteenth 12.42 (19.98) fifteenth 14.91 (24.00) sixteenth 17.93 (28.86) seventeenth 21.08 (33.93) eighteenth 25.35 (40.80) reverse 3.15 (5.07), 3.79 (6.10), 4.55 (7.33), 5.47 (8.81), 6.43 (10.35), 7.74 (12.45) 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 1969 engine rpm or 1000 rpm at 2120 engine rpm Unladen tractor mass 13725 lb (6225 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. ^o F(°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
1st(1Low) Gear									
49.6 (37.0)	12915 (57.45)	1.44 (2.32)	2296	10.9	0.774 (0.471)	9.06 (1.79)	189 (87)	50 (10)	29.3 (99.1)
2nd(2Low) Gear									
58.6 (43.7)	12875 (57.26)	1.71 (2.75)	2292	10.8	0.694 (0.422)	10.10 (1.99)	190 (88)	54 (12)	29.3 (99.1)
3rd(3Low) Gear									
69.7 (52.0)	12820 (57.02)	2.04 (3.28)	2279	11.1	0.661 (0.402)	10.61 (2.09)	190 (88)	52 (11)	29.3 (99.1)
4th(4Low) Gear									
83.0 (61.9)	12440 (55.33)	2.50 (4.03)	2275	9.0	0.585 (0.356)	11.99 (2.36)	190 (88)	54 (12)	29.3 (99.1)
5th(5Low) Gear									
93.6 (69.8)	11815 (52.56)	2.97 (4.78)	2230	6.9	0.555 (0.338)	12.63 (2.49)	192 (89)	54 (12)	28.9 (97.7)
6th(1Med) Gear									
99.6 (74.3)	12020 (53.46)	3.11 (5.00)	2087	8.4	0.540 (0.329)	12.98 (2.56)	190 (88)	54 (12)	28.9 (97.7)
7th(6Low) Gear									
102.6 (76.5)	11425 (50.83)	3.37 (5.42)	2078	5.7	0.529 (0.322)	13.25 (2.61)	190 (88)	52 (11)	28.9 (97.7)
8th(2Med) Gear									
107.5 (80.2)	11285 (50.19)	3.57 (5.75)	1932	6.0	0.502 (0.305)	13.96 (2.75)	189 (87)	52 (11)	28.9 (97.7)
9th(3Med) Gear									
113.3 (84.5)	10195 (45.35)	4.17 (6.71)	1841	4.3	0.471 (0.287)	14.87 (2.93)	189 (87)	52 (11)	28.9 (97.7)
10th(4Med) Gear									
112.4 (83.8)	8480 (37.73)	4.97 (8.00)	1806	3.2	0.482 (0.293)	14.53 (2.86)	190 (88)	52 (11)	28.9 (97.7)
11th(5Med) Gear									
112.9 (84.2)	7255 (32.27)	5.84 (9.39)	1796	2.6	0.474 (0.288)	14.78 (2.91)	192 (89)	48 (9)	28.9 (97.7)
12th(6Med) Gear									
110.1 (82.1)	5820 (25.89)	7.09 (11.42)	1805	2.1	0.486 (0.295)	14.43 (2.84)	192 (89)	50 (10)	28.9 (97.7)
13th(1High) Gear									
113.5 (84.6)	5130 (22.81)	8.30 (13.35)	1815	1.7	0.474 (0.288)	14.78 (2.91)	190 (88)	48 (9)	28.9 (97.7)

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 manufacturers three point lift claim of 12185 lbs (5527 kg). 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. **2472**, Nebraska Summary 675, december 14, 2009.

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 8th gear	68.6	69.2
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)
 19.3 in (490 mm)
 8555 lb (3880 kg)
 5335 lb (2420 kg)
 13890 lb (6300 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—1038 rpm)					
143.6 (107.1)	2200	8.77 (33.21)	0.428 (0.261)	16.37 (3.22)	
Standard Power Take-off Speed (1000 rpm)					
151.0 (112.6)	2119	8.98 (33.99)	0.417 (0.254)	16.82 (3.31)	
Maximum Power - (1 hour)					
156.1 (116.4)	1899	8.69 (32.90)	0.390 (0.237)	17.97 (3.54)	

VARYING POWER AND FUEL CONSUMPTION

143.6 (107.1)	2200	8.77 (33.21)	0.428 (0.261)	16.37 (3.22)	Air temperature
124.3 (92.7)	2238	8.04 (30.43)	0.453 (0.276)	15.47 (3.05)	75°F(24°C)
94.8 (70.7)	2274	6.75 (25.56)	0.499 (0.304)	14.05 (2.77)	Relative humidity
63.7 (47.5)	2299	5.22 (19.75)	0.574 (0.349)	12.20 (2.40)	45%
32.2 (24.0)	2322	3.64 (13.76)	0.792 (0.482)	8.85 (1.74)	Barometer
--	2339	2.28 (8.62)	--	--	29.3" Hg (99.3 kPa)

Maximum Torque - 451.5 lb.-ft. (612.1 Nm) at 1699 rpm
 Maximum Torque Rise - 31.7%
 Torque rise at 1800 engine rpm - 29%

HYDRAULIC PERFORMANCE

CATEGORY: III

Quick Attach: None

OECD Static test

Maximum force exerted through whole range: 7915 lbs (35.2 kN)

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

ii) Pump delivery rate at minimum pressure: 30.5 GPM (115.6 l/min)

iii) Pump delivery rate at maximum

hydraulic power: 22.2 GPM (83.9 l/min)

Delivery pressure: 2610 psi (180 bar)

Power: 33.8 HP (25.2 kW)

THREE POINT HITCH PERFORMANCE

Observed Maximum Pressure psi.(bar) 3020(208)

Location: lift cylinder

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

Location: hydraulic sump

Category: III

Quick attach: None

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

Hitch point distance to ground level in. (mm)	9.6 (245)	15.4 (390)	24.6 (625)	33.1 (840)	37.0 (940)
Lift force on frame lb	14165	12520	11980	11665	11355
" " " " " (kN)	(63.0)	(55.7)	(53.3)	(51.9)	(50.5)

HITCH DIMENSIONS AS TESTED—NO LOAD

	OECD test		SAE test	
	inch	mm	inch	mm
A	29.5	750	30.6	778
B	12.2	310	12.2	310
C	15.7	398	15.7	398
D	14.3	364	14.3	364
E	8.2	208	10.4	263
F	9.8	250	9.8	250
G	34.4	875	34.4	875
H	0.6	16	0.6	16
I	17.5	445	16.8	427
J	24.6	625	24.6	625
K	17.3	440	19.9	505
L	47.0	1194	47.0	1194
M	24.6	624	24.6	624
N	38.3	974	38.3	974
O	7.9	200	9.6	245
P	51.6	1310	46.6	1184
Q	38.5	978	37.6	954
R	32.4	823	33.5	850

