# SUMMARY OF OECD TEST 2481–NEBRASKA SUMMARY 682 NEW HOLLAND T6020 ELITE AS DIESEL 16 SPEED

#### **POWER TAKE-OFF PERFORMANCE** Power Crank HP shaft Gal/hr (kW)speed lb/hp.hr Hp.hr/gal Mean Atmospheric . (l/h) (kg/kW.h)(kW.h/l)Conditions rpm MAXIMUM POWER AND FUEL CONSUMPTION **Rated Engine Speed-**-(PTO speed—1037 rpm) 99.0 9197 6.22 0.44015.92(23.54)(73.8)(0.268)(3.14)Standard Power Take-off Speed (1001 rpm) 2121 100.26.14 0.430 16.31 (74.7)(23.26) (0.261)(3.21) Maximum Power - (1 hour) 108.5 1901 0.398 6.15 17.65 (80.9) (23.27)(0.242)(3.48) VARYING POWER AND FUEL CONSUMPTION 99.0 9197 6.22 0.440 15.92 Air temperature (73.8) (23.54) (0.268)(3.14)14.94 86.4 9950 5.780.469 64°F(18°C) (64.4) (21.88) (0.285)(2.94) 0.508 13.79 65.6 2280 4.76 Relative humidity (48.9)(18.00)(0.309)(2.72)

44.1 2305 3.65 0.580 12.08 30% (32.9)(13.82)(0.353)(2.38) 22.3 2.60 0.818 8.57 2331 Barometer (16.6)(9.83)(0.498)(1.69)1.73 29.6" Hg(100.2 kPa) 2354 ---(6.55)---

Maximum Torque - 360.6 lb.-ft. (488.9 Nm) at 1399 rpm

Maximum Torque Rise - 52.3%

Torque rise at  $\hat{1}800$  engine rpm - 32%

### 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 Con lb/hp.hr (kg/kW.h)	sumption Hp.hr/gal (kW.h/l)	Temp. cool- ing med	°F (°C) Air dry bulb	Barom. inch Hg (kPa)
			Maxin	um Pov	wer—7th (7BI	Low) Gear			
78.7 (58.7)	5935 (26.4)	4.97 (8.00)	2199	2.5	0.548 (0.334)	12.78 (2.52)	190 (88)	77 (25)	28.8 (97.6)
		75%	of Pull at	Maxim	um Power—	7th (7BLow)	Gear		
61.3 (45.7)	4445 (19.8)	5.17 (8.32)	2257	1.6	0.630 (0.383)	11.12 (2.19)	190 (88)	73 (23)	28.8 (97.6)
		50%	of Pull at	Maxim	um Power—	7th (7BLow)	Gear		
41.4 (30.9)	2970 (13.2)	5.23 (8.42)	2290	0.9	0.728 (0.443)	9.63 (1.90)	190 (88)	73 (23)	28.8 (97.6)
		75% of I	ull at Re	duced	Engine Spee	d—8th (9CH	ligh) Gea	r	
61.3 (45.7)	4450 (19.8)	5.17 (8.32)	2022	1.7	0.550 (0.335)	12.74 (2.51)	189 (87)	79 (26)	28.8 (97.6)
		50% of <b>F</b>	ull at Re	duced	Engine Spee	d—8th (9CH	ligh) Gea	ır	
41.4 (30.9)	2970 (13.2)	5.24 (8.42)	2035	0.9	0.633 (0.385)	11.07 (2.18)	189 (87)	77 (25)	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: January to March, 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** four cylinder vertical with turbocharger and air to air intercooler **Serial No.** 444077 **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. Z7BD02151 Tread width rear 60.0" (1524 mm) to 96.0" (2438 mm) front 52.2" (1325 mm) to 90.0" (2285 mm) Wheelbase 95.0" (2412 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 11345 lb (5145 kg)

### DRAWBAR PERFORMANCE

### (Unballasted - Front Drive Engaged) MAXIMUM POWER IN SELECTED GEARS

						EGTED GI			
Power Hp (kW)	Drawbar pull lbs	Speed mph (km/h)	Crank- shaft speed	Slip %	Fuel Con lb/hp.hr (kg/kW.h)	sumption Hp.hr/gal (kW.h/l)	cool- ing	o.°F(°C) Air dry	Barom. inch Hg
	(kN)		rpm				med	bulb	(kPa)
				4th	(4ALow) Gea	r			
68.9	11210	2.31	2224	15.2	0.617	11.36	190	73	29.0
(51.4)	(49.9)	(3.71)			(0.376)	(2.24)	(88)	(23)	(98.3)
					(5BLow) Gea				
79.7	9845	3.04	2160	9.3	0.545	12.87	190	73	29.0
(59.4)	(43.8)	(4.89)			(0.331)	(2.53)	(88)	(23)	(98.3)
				6th	(6BLow) Gea	r			
86.8	8790	3.70	2067	5.7	0.499	14.06	189	73	29.0
(64.7)	(39.1)	(5.96)			(0.303)	(2.77)	(87)	(23)	(98.3)
				7th	(7BLow) Gea	r			
90.3	7980	4.24	1896	3.7	0.476	14.73	187	68	29.0
(67.3)	(35.5)	(6.82)			(0.289)	(2.90)	(86)	(20)	(98.3)
				8th	(9CHigh) Ge	ar			
92.4	7260	4.77	1900	3.3	0.467	15.02	187	68	29.0
(68.9)	(32.3)	(7.67)			(0.284)	(2.96)	(86)	(20)	(98.3)
				9th	(8BLow) Gea	ır			
89.7	6345	5.30	1900	2.6	0.475	14.77	189	72	29.0
(66.9)	(28.2)	(8.53)			(0.289)	(2.91)	(87)	(22)	(98.3)
-				10th	(10CHigh) C	lear			
92.3	5865	5.90	1897	2.3	0.471	14.88	187	75	29.0
(68.8)	(26.1)	(9.50)			(0.286)	(2.93)	(86)	(24)	(98.3)
				11th	(11CHigh) G	ear			
88.4	4585	7.23	1901	1.6	0.488	14.36	187	75	29.0
(65.9)	(20.4)	(11.64)			(0.297)	(2.83)	(86)	(24)	(98.3)
				12th	(12CHigh)G	ear			
86.6	3625	8.96	1899	1.2	0.499	14.05	187	70	29.0
(64.6)	(16.1)	(14.42)			(0.304)	(2.77)	(86)	(21)	(98.3)

**NOTE :** The data on this summary was obtained from OECD report 2444 conducted on the Case IH Maxxum 110 Pro Diesel.

**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. **2481**, Nebraska Summary 682, January 8, 2010.

Roger M. Hoy Director

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

	Front Wheel Drive		
TRACTOR SOUND LEVEL WITH CAB	Disengaged dB(A)	Engaged dB(A)	
At no load in 7th (7BLow) gear	69.8	70.1	
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**

 $\begin{array}{l} {\rm Two}\;600/65 {\rm R38}; **; 12\;(80)\\ {\rm Two}\;480/65 {\rm R28}; **; 12\;(80)\\ 22.5\;{\rm in}\;(570\;mm)\\ 7055\;{\rm lb}\;(3200\;kg)\\ 4455\;{\rm lb}\;(2020\;kg)\\ 11510\;{\rm lb}\;(5220\;kg) \end{array}$ 

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 overide 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 HP (kW)	Crank shaft speed rpm	$\operatorname{Gal/hr}_{(l/h)}$	lb/hp.hr (kg/kW.h)	Hp.hr/gal (kW.h/l)	Mean Atmospheric Conditions
	MAXI	MUM PO	WER AN	ID FUEL	CONSUMPTION
		Rated Eng	ine Speed-	-(PTO speed	d—1037 rpm)
117.5	2197	7.17	0.427	16.38	
(87.6)		(27.14)	(0.260)	(3.23)	
		Standard	l Power Tal	ke-off Speed	(1000 rpm)
122.4	2119	7.21	0.413	16.97	· • ·
(91.3)		(27.31)	(0.251)	(3.34)	
		Maxir	num Power	-(1 hour)	
127.7	1899	7.22	0.396	17.69	
(95.2)		(27.32)	(0.241)	(3.49)	
ARYING	POWER	AND FU	EL CONS	UMPTION	1
117.5	2197	7.17	0.427	16.38	 Air temperature
(87.6)		(27.14)	(0.260)	(3.23)	Ĩ
101.6	2236	6.38	0.440	15.93	65°F(19°C)
(75.8)		(24.15)	(0.268)	(3.14)	
77.2	2263	5.33	0.484	14.48	Relative humidity
(57.6)		(20.19)	(0.294)	(2.85)	
	2297	4.16	0.557	12.59	35%
52.3		(15 75)	(0.339)	(2.48)	
52.3 (39.0)		(15.75)	()		
<i>(39.0)</i> 26.5	2325	2.79	0.738	9.50	Barometer
(39.0)	2325	. ,	( /	9.50 (1.87)	Barometer
<i>(39.0)</i> 26.5	2325 2354	2.79	0.738		Barometer 

### POWER TAKE-OFF PERFORMANCE

Torque rise at 1800 engine rpm-30%

# HYDRAULIC PERFORMANCE

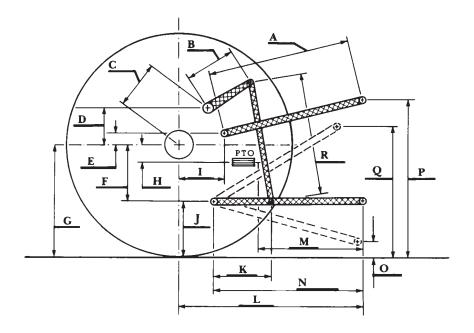
CATEGORY: III	
Quick Attach: None	
OECD Static test	
Maximum force exerted through whole range:	7735 lbs (34.4 kN)
i) Opening pressure of relief valve:	NA
Sustained pressure of the open relief valve:	3005 psi (207 bar)
ii) Pump delivery rate at minimum pressure:	28.4 GPM (107.6 l/min)
iii) Pump delivery rate at maximum	
hydraulic power:	24.8 GPM (93.9 l/min)
Delivery pressure:	2755 psi (190 bar)
Power:	39.8 HP (29.7 kW)

## THREE POINT HITCH PERFORMANCE

Observed Maximum Pressure psi. (bar)	3005(207)	
Location:	lift cylinder	ніт
Hydraulic oil temperature: °F(°C)	150(66)	пп
Location:	hydraulic sump	
Category:	III	
Quick attach:	None	A
-		I

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)	

ІТСН	DIMENS	SIONS A	AS TESTEI	)—NO	LOAD
	OECI	) test	SAE	test	
	inch	mm	inch	mm	
А	30.3	770	31.0	788	
В	12.2	310	12.2	310	
С	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	
Н	1.2	30	1.2	30	
Ι	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	
Μ	24.5	623	24.5	623	
Ν	39.8	1010	39.8	1010	
0	7.9	200	7.9	200	
Р	50.0	1270	45.0	1144	
Q	36.8	935	34.3	872	
Ř	32.3	820	34.1	867	



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