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Nebraska Summary: S668 New Holland T6050 Delta

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SUMMARY OF OECD TEST 2442/1–NEBRASKA SUMMARY 668
NEW HOLLAND T6050 DELTA 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)					
114.8 *(85.6)*	2197	6.97 *(26.37)*	0.425 *(0.259)*	16.48 *(3.25)*	
Maximum Power - (1 hour)					
114.8 *(85.6)*	2197	6.97 *(26.37)*	0.425 *(0.259)*	16.48 *(3.25)*	
Standard Power Take-off Speed (1001 rpm)					
113.3 *(84.5)*	2121	6.80 *(25.74)*	0.421 *(0.256)*	16.65 *(3.28)*	
VARYING POWER AND FUEL CONSUMPTION					
114.8 *(85.6)*	2197	6.97 *(26.37)*	0.425 *(0.259)*	16.48 *(3.25)*	Air temperature
105.4 *(78.6)*	2369	6.69 *(25.31)*	0.446 *(0.271)*	15.74 *(3.10)*	68°F *(20°C)*
79.5 *(59.3)*	2386	5.65 *(21.38)*	0.499 *(0.303)*	14.06 *(2.77)*	Relative humidity
53.0 *(39.5)*	2390	4.35 *(16.48)*	0.578 *(0.351)*	12.17 *(2.39)*	47%
26.6 *(19.8)*	2401	3.11 *(11.76)*	0.821 *(0.499)*	8.54 *(1.68)*	Barometer
-- --	2437	2.06 *(7.80)*	-- --	-- --	29.3" Hg *(99.2 kPa)*

Maximum Torque - 435.2 lb.-ft. *(590.1 Nm)* at 901 rpm
Maximum Torque Rise - 58.7%
Torque rise at 1800 engine rpm - 17%

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									
90.4 *(67.4)*	6665 *(29.65)*	5.08 *(8.18)*	2205	4.2	0.539 *(0.328)*	12.99 *(2.56)*	189 *(87)*	66 *(19)*	29.1 *(98.4)*
75% of Pull at Maximum Power—7th (7B) Gear									
73.8 *(55.0)*	5000 *(22.24)*	5.54 *(8.91)*	2378	3.2	0.589 *(0.358)*	11.90 *(2.34)*	190 *(88)*	66 *(19)*	29.1 *(98.4)*
50% of Pull at Maximum Power—7th (7B) Gear									
49.7 *(37.1)*	3325 *(14.79)*	5.61 *(9.02)*	2387	2.4	0.747 *(0.455)*	9.38 *(1.85)*	190 *(88)*	70 *(21)*	29.1 *(98.4)*
75% of Pull at Reduced Engine Speed—8th (9C) Gear									
74.6 *(55.6)*	4995 *(22.23)*	5.60 *(9.00)*	2152	3.1	0.546 *(0.332)*	12.84 *(2.53)*	187 *(86)*	66 *(19)*	29.1 *(98.4)*
50% of Pull at Reduced Engine Speed—8th (9C) Gear									
50.3 *(37.5)*	3330 *(14.82)*	5.67 *(9.12)*	2158	2.1	0.635 *(0.386)*	11.04 *(2.17)*	189 *(87)*	66 *(19)*	29.1 *(98.4)*

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

Dates of tests: October 2007to January 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.** 448137 **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.** Z7BE02226 **Tread width** rear 60.0" *(1524 mm)* to 96.0" *(2438 mm)* front 52.2" *(1325 mm)* to 90.0" *(2285 mm)* **Wheelbase** 104.4" (*2652 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 1.50 *(2.42)* second 1.85 *(2.97)* third 2.24 *(3.61)* fourth 2.75 *(4.43)* fifth 3.53 *(5.68)* sixth 4.33 (*6.97)* seventh 5.28 *(8.49)* eighth 5.88 *(9.46)* ninth 6.46 *(10.41)* tenth 7.21 *(11.60)* eleventh 8.77 *(14.12)* twelfth 10.77 *(17.33)* thirteenth 13.80 *(22.21)* fourteenth 16.93 *(27.25)* fifteenth 20.61 *(33.18)* sixteenth 25.29 *(40.70)* reverse 1.49 *(2.39)*, 1.82 *(2.93)*, 2.22 *(3.57)*, 2.72 *(4.38)*, 3.49 *(5.61)*, 4.28 *(6.89)*, 5.21 *(8.39)*, 5.80 *(9.34)*, 6.39 *(10.29)*, 7.12 *(11.46)*, 8.67 *(13.96)*, 10.64 *(17.12)*, 13.64 *(21.95)*, 16.73 *(26.93)*, 20.38 *(32.79)*, 25.00 *(40.23)* **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** 11365 lb *(5155 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)*	Hp.hr/gal *(kW.h/l)*	Temp.°F*(°C)* cool-ing med	Air dry bulb	Barom. inch Hg *(kPa)*
					5th(5B) Gear				
86.2 *(64.3)*	10390 *(46.23)*	3.11 *(5.01)*	2284	15.4	0.555 *(0.337)*	12.63 *(2.49)*	189 *(87)*	59 *(15)*	28.9 *(97.8)*
					6th(6B) Gear				
96.8 *(72.2)*	8945 *(39.79)*	4.06 *(6.53)*	2203	6.7	0.504 *(0.306)*	13.92 *(2.74)*	189 *(87)*	61 *(16)*	28.9 *(97.8)*
					7th(7B) Gear				
92.1 *(68.7)*	6790 *(30.21)*	5.09 *(8.19)*	2212	4.5	0.528 *(0.321)*	13.26 *(2.61)*	189 *(87)*	63 *(17)*	28.9 *(97.8)*
					8th(9C) Gear				
93.7 *(69.9)*	6205 *(27.60)*	5.67 *(9.12)*	2200	3.9	0.520 *(0.316)*	13.48 *(2.65)*	189 *(87)*	64 *(18)*	28.9 *(97.9)*
					9th(8B) Gear				
91.3 *(68.1)*	5485 *(24.39)*	6.24 *(10.05)*	2197	3.7	0.535 *(0.325)*	13.11 *(2.58)*	189 *(87)*	63 *(17)*	28.9 *(97.9)*
					10th(10C) Gear				
93.5 *(69.7)*	4945 *(21.99)*	7.09 *(11.41)*	2198	1.9	0.523 *(0.318)*	13.40 *(2.64)*	189 *(87)*	63 *(17)*	28.9 *(97.9)*
					11th(11C) Gear				
87.8 *(65.5)*	3820 *(17.00)*	8.62 *(13.87)*	2210	2.7	0.555 *(0.337)*	12.64 *(2.49)*	189 *(87)*	63 *(17)*	28.9 *(97.9)*
					12th(12C) Gear				
86.0 *(64.1)*	3045 *(13.55)*	10.59 *(17.04)*	2200	2.1	0.568 *(0.345)*	12.34 *(2.43)*	189 *(87)*	59 *(15)*	28.9 *(98.0)*

NOTE: The data on this summary was obtained from OECD report 2442 conducted on the Case IH Maxxum 125 Value 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 capacity claims of 7509 lbs *(3406 kg)* (with 1 lift assist cylinder) nor 8813 lbs *(3997 kg)* (with 2 lift assist 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. **2442/1,** Nebraska Summary 668, December 10, 2009.

Roger M. Hoy
Director

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

TRACTOR SOUND LEVEL WITHOUT CAB	Front Wheel Drive Disengaged dB(A)	Engaged dB(A)
At no load in 6th (6B) gear	85.5	85.8
Bystander	--	--

TIRES AND WEIGHT	Tested Without Ballast
Rear tires - No.,size, ply & psi*(kPa)*	Two 480/80R42; **;9 *(60)*
Front tires - No.,size, ply & psi*(kPa)*	Two 380/85R30; **;14 *(100)*
Height of Drawbar	24.2 in *(615 mm)*
Static Weight with operator- Rear	7075 lb *(3210 kg)*
- Front	4455 lb *(2020 kg)*
- Total	11530 lb *(5230 kg)*

HYDRAULIC PERFORMANCE

CATEGORY: II		
Quick Attach: None		
OECD Static test		lift assist cylinders
Maximum force exerted through whole range:	5305 lbs	*(23.6 kN)* (1 x 50 mm)
	6610 lbs	*(29.4 kN)* (2 x 50 mm)
i) Sustained pressure of the open relief valve:	2610 psi	*(180 bar)*
ii) Pump delivery rate at minimum pressure:	16.6 GPM	*(62.8 l/min)*
iii) Pump delivery rate at maximum hydraulic power:	14.8 GPM	*(56.0 l/min)*
Delivery pressure:	2320 psi	*(160 bar)*
Power:	20.0 HP	*(14.9 kW)*

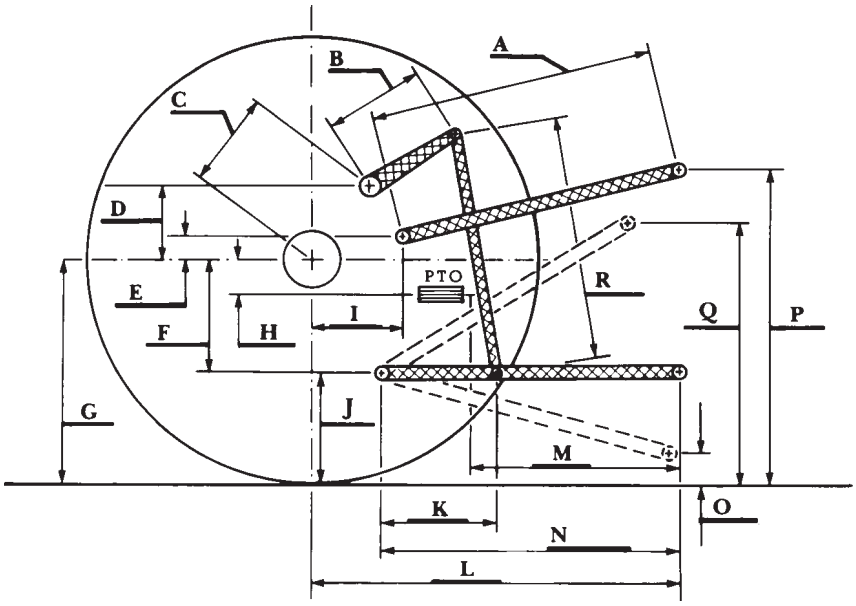
THREE POINT HITCH PERFORMANCE

Observed Maximum Pressure psi. *(bar)*	2610 *(180)*
Location:	lift cylinder
Hydraulic oil temperature: °F *(°C)*	150 *(66)*
Location:	hydraulic sump
Category:	II
Quick attach:	None

SAE Static Test—System pressure 2350 psi *(162 Bar)*
lift assist cylinder - 1x 50 mm

Hitch point distance to ground level in. *(mm)*	8.3 *(210)*	16.1 *(410)*	23.0 *(585)*	27.4 *(695)*	35.2 *(895)*
Lift force on frame lb	8430	7800	8160	7800	6700
" " " " " " *(kN)*	*(37.5)*	*(34.7)*	*(36.3)*	*(34.7)*	*(29.8)*

SAE Static Test—System pressure 2350 psi *(162 Bar)*
lift assist cylinders - 2 x 50 mm

Hitch point distance to ground level in. *(mm)*	8.3 *(210)*	14.2 *(360)*	23.0 *(585)*	27.4 *(695)*	35.2 *(895)*
Lift force on frame lb	10950	9960	10275	9645	8070
" " " " " " *(kN)*	*(48.7)*	*(44.3)*	*(45.7)*	*(42.9)*	*(35.9)*

	OECD test		SAE test	
	inch	*mm*	inch	*mm*
A	27.6	*700*	28.1	*715*
B	10.0	*255*	10.0	*255*
C	15.9	*403*	15.9	*403*
D	14.1	*357*	14.1	*357*
E	7.9	*200*	9.8	*250*
F	9.2	*235*	9.2	*235*
G	34.4	*875*	34.4	*875*
H	1.0	*25*	1.0	*25*
I	16.9	*430*	15.6	*395*
J	25.2	*640*	25.2	*640*
K	19.9	*505*	23.0	*585*
L	44.0	*1118*	44.0	*1118*
M	22.2	*563*	22.2	*563*
N	37.4	*950*	37.4	*950*
O	7.9	*200*	7.9	*200*
P	49.2	*1250*	42.0	*1068*
Q	33.5	*850*	33.5	*850*
R	31.3	*795*	32.3	*820*