SUMMARY OF OECD TEST 3009–NEBRASKA SUMMARY 1139
NEW HOLLAND T4.120 DIESEL
12 SPEED

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)*	D.E.F. Consumption Gal/hr *(l/h)*	Mean Atmospheric Conditions
MAXIMUM POWER AND FUEL CONSUMPTION						
Rated Engine Speed—(PTO speed—635 rpm)						
100.3 *(74.8)*	2302	5.91 *(22.37)*	0.413 *(0.251)*	16.97 *(3.34)*	0.23 *(0.88)*	
Standard Power Take-off Speed (540 rpm)						
106.1 *(79.1)*	1958	5.74 *(21.73)*	0.378 *(0.230)*	18.48 *(3.64)*	0.13 *(0.49)*	
Maximum Power (1 hour)						
106.1 *(79.1)*	1958	5.74 *(21.73)*	0.378 *(0.230)*	18.48 *(3.64)*	0.13 *(0.49)*	
VARYING POWER AND FUEL CONSUMPTION						
100.3 *(74.8)*	2302	5.91 *(22.37)*	0.413 *(0.251)*	16.97 *(3.34)*	0.23 *(0.88)*	Air temperature
86.2 *(64.3)*	2327	5.25 *(19.89)*	0.427 *(0.259)*	16.41 *(3.23)*	0.20 *(0.74)*	79°F *(26°C)*
65.3 *(48.7)*	2353	4.38 *(16.58)*	0.469 *(0.285)*	14.92 *(2.94)*	0.17 *(0.63)*	Relative humidity
44.0 *(32.8)*	2378	3.35 *(12.69)*	0.533 *(0.324)*	13.15 *(2.59)*	0.12 *(0.45)*	66%
22.2 *(16.6)*	2400	2.30 *(8.71)*	0.724 *(0.440)*	9.67 *(1.90)*	0.10 *(0.36)*	Barometer
--- ---	2414	1.44 *(5.44)*	--- ---	--- ---	0.05 *(0.19)*	29.9" Hg *(101.2 kPa)*

Maximum torque - 330 lb.-ft. *(448 Nm)* at 1552 rpm
Maximum torque rise - 44.4%
Torque rise at 1850 engine rpm - 29%
Power increase at 1958 engine rpm - 5.7%

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)*	Fuel Consumption Hp.hr/gal *(kW.h/l)*	D.E.F Consumption lb/hp.hr *(kg/kW.h)*	Temp.°F*(°C)* cool-ing med	Air dry bulb	Barom. inch Hg *(kPa)*
Power at Rated Engine Speed—8th (4M) Gear										
76.0 *(56.7)*	4690 *(20.86)*	6.08 *(9.78)*	2303	6.9	0.528 *(0.321)*	13.25 *(2.61)*	0.026 *(0.016)*	201 *(94)*	72 *(22)*	29.9 *(101.4)*
75% of Pull at Rated Engine Speed—8th (4M) Gear										
59.7 *(44.5)*	3520 *(15.65)*	6.37 *(10.25)*	2354	4.6	0.500 *(0.304)*	13.97 *(2.75)*	0.021 *(0.013)*	201 *(94)*	72 *(22)*	29.9 *(101.4)*
50% of Pull at Rated Engine Speed—8th (4M) Gear										
40.6 *(30.3)*	2345 *(10.43)*	6.50 *(10.46)*	2369	3.3	0.641 *(0.390)*	10.91 *(2.15)*	0.026 *(0.016)*	203 *(95)*	73 *(23)*	29.9 *(101.4)*
75% of Pull at Reduced Engine Speed—9th (1H) Gear										
59.7 *(44.5)*	3520 *(15.65)*	6.37 *(10.25)*	1893	4.6	0.553 *(0.337)*	12.64 *(2.49)*	0.023 *(0.014)*	201 *(94)*	72 *(22)*	29.9 *(101.4)*
50% of Pull at Reduced Engine Speed—9th (1H) Gear										
40.6 *(30.3)*	2345 *(10.43)*	6.50 *(10.46)*	1905	3.3	0.591 *(0.360)*	11.83 *(2.33)*	0.026 *(0.016)*	203 *(95)*	72 *(22)*	29.9 *(101.4)*

Location of tests: Alma Mater Studiorum, University Di Bologna, Via Gandolfi, 19-40057, Cadriano, Bologna, Italy
Dates of tests: May, 2016

Manufacturer: CNH Industrial Italia S.p.A, viale delle, Nazioni 55, 41122 - Modena, Italy

CONSUMABLE Fluids, OIL and TIME: Fuel No. 2 Diesel **Specific gravity converted to 60°/60°F *(15°/15°C)*** 0.840 **Fuel weight** 6.99 lbs/gal *(0.838 kg/l)* **Diesel Exhaust Fluid (DEF)** 32% aqueous urea solution **DEF weight** 9.071 lbs/gal *(1.087 kg/l)* **Oil SAE** 10W30 **API service classification** CJ-4 **Transmission and hydraulic lubricant** Akcela Nexplore fluid **Front axle lubricant** Akcela Nexplore fluid

ENGINE: Make F.P.T Industrial Diesel **Type** Four cylinder vertical with turbocharger, air to air intercooler and D.E.F. (diesel exhaust fluid) exhaust treatment **Serial No.** 285701 **Crankshaft** lengthwise **Rated engine speed** 2300 **Bore and stroke** 3.898" x 4.331" *(99.0 mm x 110.0 mm)* **Compression ratio** 17.0 to 1 **Displacement** 207 cu in *(3387 ml)* **Starting system** 12 volt **Lubrication** pressure **Air cleaner** two paper elements **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 **Exhaust** DOC (diesel oxidation catalyst) and SCR (selective catalyst reduction) integrated within a vertical muffler **Cooling medium temperature control** one thermostat and variable speed fan

CHASSIS: Type front wheel assist **Serial No.** ZFLE 00903 **Tread width** rear 52.6" *(1337mm)* to 76.3" *(1937 mm)* front 48.6" *(1235 mm)* to 76.7" *(1947 mm)* **Wheelbase** 90.0" *(2285 mm)* **Hydraulic control system** direct engine drive **Transmission** selective gear fixed ratio **Nominal travel speeds mph *(km/h)*** first 0.60 *(0.97)* second 0.92 *(1.48)* third 1.35 *(2.17)* fourth 1.87 *(3.01)* fifth 2.08 *(3.34)* sixth 3.18 *(5.11)* seventh 4.65 (*7.48)* eighth 6.45 *(10.38)* ninth 7.99 *(12.86)* tenth 12.22 *(19.67)* eleventh 17.90 *(28.80)* twelfth 24.84 *(39.97)* reverse 0.60 *(0.97)*, 0.92 *(1.48)*, 1.34 *(2.16)*, 1.86 *(3.00)*, 2.07 *(3.33)*, 3.16 *(5.09)*, 4.64 *(7.46)*, 6.43 *(10.35)*, 7.97 *(12.82)*, 12.19 *(19.61)*, 17.85 *(28.72)*, 24.77 *(39.86)* **Clutch** single dry disc operated by foot pedal **Brakes** single wet disc operated by two foot pedals which can be locked together **Steering** hydrostatic **Power take-off** 540 rpm at 1957 engine rpm or 1000 rpm at 2125 engine rpm **Unladen tractor mass** 8245 lb *(3740 kg)*

DRAWBAR PERFORMANCE AT 1960 ENGINE RPM

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)*	D.E.F Consumption lb/hp.hr *(kg/kW.h)*	Temp.°F*(°C)* cool-ing med	Air dry bulb	Barom. inch Hg *(kPa)*
					7th (3M) Gear					
73.6 *(54.9)*	6910 *(30.73)*	4.00 *(6.43)*	2301	15.0	0.560 *(0.341)*	12.49 *(2.46)*	0.028 *(0.017)*	198 *(92)*	72 *(22)*	29.9 *(101.4)*
					8th (4M) Gear					
82.2 *(61.3)*	6340 *(28.21)*	4.86 *(7.82)*	1955	12.0	0.505 *(0.307)*	13.86 *(2.73)*	0.026 *(0.016)*	198 *(92)*	72 *(22)*	29.9 *(101.4)*
					9th(1H) Gear					
88.0 *(65.6)*	5220 *(23.21)*	6.32 *(10.18)*	1952	7.9	0.473 *(0.288)*	14.77 *(2.91)*	0.023 *(0.014)*	198 *(92)*	72 *(22)*	29.9 *(101.4)*
					10th(2H) Gear					
87.3 *(65.1)*	3255 *(14.48)*	10.06 *(16.19)*	1957	4.3	0.470 *(0.286)*	14.87 *(2.93)*	0.023 *(0.014)*	196 *(91)*	70 *(21)*	29.9 *(101.4)*

REPAIRS AND ADJUSTMENTS: No repairs or adjustments.

REMARKS: All test results were determined from observed data obtained in accordance with official OECD test procedures. The manufacturer's 3 point lift capacity claim of 7351 lbs *(3334 kg)*, with optional lift cylinders, was not verified. The performance results on this summary were taken from tests conducted under the OECD Code 2 test procedure.

We, the undersigned, certify that this is a true summary of data from OECD Report No. **3009,** Nebraska Summary 1139, December 14, 2017.

Roger M. Hoy
Director

M.F. Kocher
J.D. Luck
S.K. Pitla
Board of Tractor Test Engineers

TRACTOR SOUND LEVEL WITH CAB	Front Wheel Drive Engaged dB(A)	Front Wheel Drive Disengaged dB(A)
At no load in 7th (3M) gear	77.3	77.3
Bystander		---

Horizontal distance of drawbar hitch point behind rear wheel axis - 34.8 in *(885 mm)*

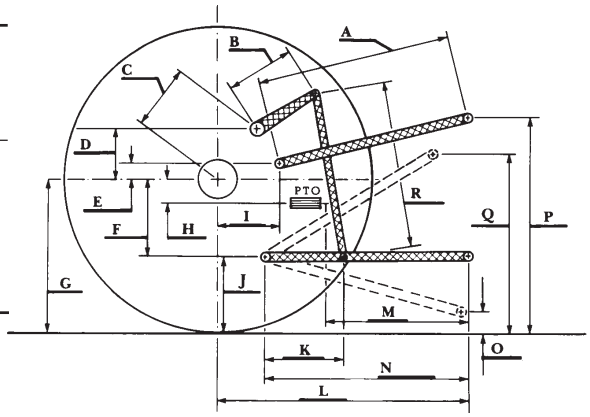
TIRES AND WEIGHT — **Tested Without Ballast**

Rear Tires - No., size, ply & psi*(kPa)*	Two 460/85R34;**;23*(160)*
Front Tires - No., size, ply & psi*(kPa)*	Two 380/85R24;**;23*(160)*
Height of Drawbar	18.1 in *(460 mm)*
Static Weight with operator - Rear	5050 lb *(2290 kg)*
- Front	3360 lb *(1525 kg)*
- Total	8410 lb *(3815 kg)*

HYDRAULIC PERFORMANCE

CATEGORY: II
Quick Attach: None
OECD Static test
Maximum force exerted through whole range: 5760 lbs *(25.6 kN)*

i) Sustained pressure with relief valve open: 2990 psi *(206 bar)*
ii) Pump delivery rate at minimum pressure: 17.1 GPM *(65.0 l/min)*
iii) Pump delivery rate at maximum hydraulic power: 15.8 GPM *(59.8 l/min)*
Delivery pressure: 2670 psi *(184 bar)*
Power: 24.6 hp *(18.4 kW)*



HITCH DIMENSIONS AS TESTED—NO LOAD

	inch	*mm*
A	28.7	*730*
B	10.0	*255*
C	13.8	*351*
D	12.7	*323*
E	11.8	*300*
F	7.4	*189*
G	30.5	*775*
H	0.6	*16*
I	13.0	*330*
J	23.1	*586*
K	19.7	*500*
L	42.1	*1070*
M	23.2	*590*
N	36.0	*915*
O	16.3	*415*
P	47.1	*1196*
Q	40.9	*1038*
R	24.2	*615*

RECOMMENDED CITATION FORMAT:

NTTL.(2017). OECD tractor test 3009 for New Holland T4.120 Diesel.
Lincoln, NE: Nebraska Tractor Test Laboratory. Retrieved from http://tractortestlab.unl.edu