

NEBRASKA TRACTOR TEST 2013A

NEW HOLLAND WORKMASTER 65 DIESEL

8 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
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MAXIMUM POWER AND FUEL CONSUMPTION

Rated Engine Speed—(PTO speed—688 rpm)					
60.38 (45.02)	2500	4.04 (15.30)	0.472 (0.287)	14.94 (2.94)	
Maximum Power (1 hour)					
61.70 (46.01)	2248	3.81 (14.41)	0.435 (0.264)	16.21 (3.19)	
Standard Power Take-off Speed(540 rpm)					
58.07 (43.31)	1967	3.37 (12.77)	0.409 (0.249)	17.21 (3.39)	

VARYING POWER AND FUEL CONSUMPTION

60.38 (45.02)	2500	4.04 (15.30)	0.472 (0.287)	14.94 (2.94)	Air temperature
53.13 (39.62)	2586	3.79 (14.35)	0.503 (0.306)	14.02 (2.76)	73°F (23°C)
40.05 (29.86)	2596	3.18 (12.05)	0.560 (0.341)	12.58 (2.48)	Relative humidity
26.89 (20.06)	2608	2.45 (9.28)	0.643 (0.391)	10.97 (2.16)	20%
19.93 (14.86)	2629	2.07 (7.85)	0.733 (0.446)	9.61 (1.89)	Barometer
--	2679	1.12 (4.23)	---	--	29.03"Hg (98.31 kPa)

Maximum Torque - 178 lb.-ft. (241 Nm) at 1250 rpm
 Maximum Torque rise - 40.9%
 Torque rise at 2000 rpm - 21%

TRACTOR SOUND LEVEL WITHOUT CAB

	Front Wheel Drive	
	Engaged dB(A)	Disengaged dB(A)
At no load in 4th (L4) gear	93.7	93.0
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 16.9-30; 12:16 (110)
 Two 11.2-24; 8; 16 (110)
 19.5 in (495 mm)
 3435 lb (1558 kg)
 2460 lb (1116 kg)
 5895 lb (2674 kg)

Location of tests: Nebraska Tractor Test Laboratory, University of Nebraska, Lincoln Nebraska 68583-0832

Dates of tests: December 6 to 14, 2011

Manufacturer: New Holland Tractors (I) Pvt Ltd Udyog Kendra, Plot No. 3 Greater Noida - 201303 U.P. India

FUEL, OIL and TIME: Fuel No. 2 Diesel Specific gravity converted to 60°/60° F (15°/15°C) 0.8463 Fuel weight 7.047 lbs/gal (0.845 kg/l) Oil SAE 15W40 API service classification CI-4 Transmission and hydraulic lubricant New Holland M2C134D fluid Front axle lubricant New Holland M2C134D fluid Total time engine was operated 11.5 hours

ENGINE: Make FPT Diesel **Type** four cylinder vertical with turbocharger **Serial No.** 45779 **Crankshaft** lengthwise **Rated engine speed** 2500 **Bore and stroke** 3.898" x 4.094" (99.0 mm x 104.0 mm) **Compression ratio** 17.0 to 1 **Displacement** 195 cu in (3200 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 **Fuel filter** one paper element **Muffler** underhood **Exhaust** vertical **Cooling medium temperature control** one thermostat

ENGINE OPERATING PARAMETERS: Fuel rate: 26.9 - 28.9 lb/h (12.2 - 13.1 kg/h) **High idle:** 2650 - 2750 rpm **Turbo boost:** nominal 11.6 - 14.5 psi (80 - 100 kPa) as measured 13.0 psi (90 kPa)

CHASSIS: Type front wheel assist **Serial No.** 8159826 **Tread width** rear 59.7" (1517 mm) to 80.2" (2036 mm) front 59.6" (1515 mm) to 79.6" (2022 mm) **Wheelbase** 87.0" (2210 mm) **Hydraulic control system** direct engine drive **Transmission** selective gear fixed ratio **Nominal travel speeds mph (km/h)** first 1.85 (2.98) second 2.79 (4.49) third 4.08 (6.57) fourth 5.28 (8.49) fifth 6.67 (10.74) sixth 10.04 (16.16) seventh 14.70 (23.66) eighth 18.99 (30.56) reverse 2.67 (4.29), 9.59 (15.43) **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 1967 engine rpm **Unladen tractor mass** 5720 lb (2595 kg)

HYDRAULIC PERFORMANCE

CATEGORY: II

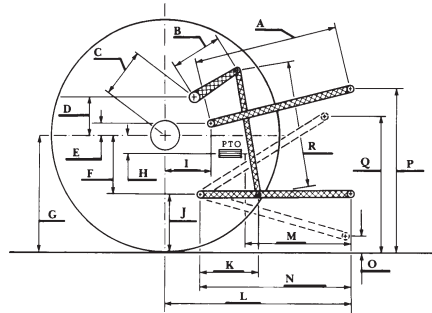
Quick Attach: None

OECD Static test

Maximum force exerted through whole range:	2460 lbs	(10.9 kN)(at frame)
	3394 lbs	(15.1 kN)(at link ends)
i) Sustained pressure of the open relief valve:	2869 psi	(198 bar)
ii) Pump delivery rate at minimum pressure and rated engine speed:	10.5 GPM	(39.9 l/min)
iii) Pump delivery rate at maximum hydraulic power:	10.8 GPM	(40.9 l/min)
Delivery pressure:	2479 psi	(171 bar)
Power:	15.6 HP	(11.7 kW)

HITCH DIMENSIONS AS TESTED - NO LOAD

	inch	mm
A	29.6	753
B	9.1	230
C	13.4	341
D	13.2	335
E	15.2	385
F	5.3	135
G	27.4	695
H	0.0	0
I	3.9	100
J	22.1	560
K	19.4	493
L	33.8	858
M	23.5	598
N	33.4	848
O	8.0	203
P	46.1	1170
Q	32.4	823
R	25.3	642



REPAIRS AND ADJUSTMENTS: No repairs or adjustments.

NOTE: The performance results on this report were obtained from tests carried out on the Case IH Farmall 65A Diesel.

REMARKS: All test results were determined from observed data obtained in accordance with official OECD, SAE and Nebraska test procedures. For the maximum power tests, the fuel temperature at the primary fuel filter was maintained at 104°F (40°C).

We, the undersigned, certify that this is a true and correct report of official Tractor Test No. **2013A**, January 19, 2012.

Roger M. Hoy
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Board of Tractor Test Engineers



New Holland Workmaster 65 Diesel
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