

# SUMMARY OF OECD TEST 3052-NEBRASKA SUMMARY 1055 NEW HOLLAND T7.290 DIESEL CONTINUOUSLY VARIABLE TRANSMISSION

## POWER TAKE-OFF PERFORMANCE

Power HP (kW)	Crank shaft speed rpm	Diesel Consumption		D.E.F. Consumption		Mean Atmospheric Conditions
		Gal/hr (l/h)	lb/hp.hr (kg/kW.h)	Hp.hr/gal (kW.h/l)	Gal/hr (l/h)	
<b>MAXIMUM POWER AND FUEL CONSUMPTION</b>						
<b>Rated Engine Speed—(PTO speed—1133 rpm)</b>						
246.5 (183.8)	2100	12.80 (48.47)	0.362 (0.220)	19.25 (3.79)	0.99 (3.76)	
<b>Standard Power Take-off Speed (1000 rpm)</b>						
268.2 (200.0)	1853	13.60 (51.50)	0.353 (0.215)	19.71 (3.88)	1.01 (3.82)	
<b>Maximum Power (1 hour)</b>						
270.1 (201.4)	1800	13.62 (51.57)	0.352 (0.214)	19.82 (3.91)	1.04 (3.94)	

## VARYING POWER AND FUEL CONSUMPTION

246.5 (183.8)	2100	12.80 (48.50)	0.362 (0.220)	19.25 (3.79)	0.99 (3.76)	Air temperature
210.5 (157.0)	2110	11.18 (42.30)	0.370 (0.225)	18.83 (3.71)	0.88 (3.35)	73°F (23°C)
158.8 (118.4)	2122	8.82 (33.40)	0.388 (0.236)	18.00 (3.55)	0.68 (2.57)	Relative humidity
106.5 (79.4)	2135	6.50 (24.60)	0.426 (0.259)	16.39 (3.23)	0.48 (1.80)	59%
53.5 (39.9)	2146	4.25 (16.10)	0.554 (0.337)	12.59 (2.48)	0.24 (0.89)	Barometer
----	2159	2.03 (7.70)	----	----	0.13 (0.50)	29.9" Hg (101.3 kPa)

Maximum torque - 848 lb-ft (1150 Nm) at 1500 rpm

Maximum torque rise - 37.6%

Torque rise at 1700 engine rpm - 32%

Power increase at 1800 engine rpm - 9.6%

## 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)	D.E.F. 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)
<b>Power at Rated Engine Speed—4.7 mph (7.5 km/h)</b>										
202.4 (150.9)	16205 (72.08)	4.69 (7.54)	2101	3.7	0.437 (0.266)	15.58 (3.07)	0.046 (0.028)	154 (68)	91 (33)	29.3 (99.2)
<b>75% of Pull at Rated Engine Speed—4.7 mph (7.5 km/h)</b>										
153.1 (114.2)	12040 (53.56)	4.77 (7.68)	2116	2.7	0.450 (0.274)	15.13 (2.98)	0.046 (0.028)	144 (62)	91 (33)	29.3 (99.2)
<b>50% of Pull at Rated Engine Speed—4.7 mph (7.5 km/h)</b>										
103.4 (77.1)	7995 (35.57)	4.85 (7.80)	2133	1.9	0.490 (0.298)	13.91 (2.74)	0.044 (0.027)	149 (65)	91 (33)	29.3 (99.2)
<b>75% of Pull at Reduced Engine Speed—6.8 mph (11.0 km/h)</b>										
153.9 (114.8)	12050 (53.61)	4.79 (7.71)	1514	2.6	0.425 (0.259)	16.04 (3.16)	0.041 (0.025)	176 (80)	91 (33)	29.3 (99.2)
<b>50% of Pull at Reduced Engine Speed—6.8 mph (11.0 km/h)</b>										
104.0 (77.5)	8000 (35.58)	4.88 (7.85)	1526	1.7	0.446 (0.271)	15.28 (3.01)	0.043 (0.026)	176 (80)	93 (34)	29.3 (99.2)

**Location of tests:** DLG e.V. Test Centre, Technology and Farm inputs, Max-Eyth-Weg 1, D-64823 Gross-Umstadt, Germany

**Dates of tests:** June to July, 2016.

**Manufacturer:** CNH Industrial Europe Holdings S.A., Boulevard Royal, L-2449 Luxembourg

**CONSUMABLE FLUIDS:** Fuel No. 2 Diesel Specific gravity converted to 60°/60°F (15°/15°C) 0.839 Fuel weight 6.98 lbs/gal (0.836 kg/l) Diesel Exhaust Fluid (DEF) 32% aqueous urea solution DEF weight 9.10 lbs/gal (1.093 kg/l) Oil SAE 10W40 API service classification CI-4 Transmission and hydraulic lubricant BP STOU 10W/40 Front axle lubricant SAE 85W90 API GL5

**ENGINE:** Make F.P.T. Industrial Diesel Type six cylinder vertical with turbocharger, air to air intercooler and D.E.F. (diesel exhaust fluid) exhaust treatment Serial No. \*001375166\* Crankshaft lengthwise Rated engine speed 2100 Bore and stroke 4.094" x 5.197" (104.0 mm x 132.0 mm) Compression ratio 17.0 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 two paper elements Fuel cooler radiator for pump return fuel Exhaust DOC (diesel oxidation catalyst) and SCR (selective catalyst reduction) integrated within a vertical muffler Cooling medium temperature control thermostat and variable speed fan

**CHASSIS:** Type front wheel assist Serial No. \*ZFME50794\* Tread width rear 72.4" (1840 mm) to 114.5" (2908 mm) front 73.1" (1858 mm) to 88.9" (2258 mm) Wheelbase 117.9" (2995 mm) Hydraulic control system direct engine drive Transmission Infinitely variable with four ranges and automatic shifting between ranges Nominal travel speeds mph (km/h) forward - 0 - 32.0 mph (0 - 52 km/h), reverse - 0 - 16.8 mph (0 - 27 km/h) Clutch multiple wet disc electrohydraulically operated by foot pedal Brakes wet disc hydraulically operated by two foot pedals that can be locked together Steering hydrostatic Power take-off 1000 rpm at 1853 engine rpm Unladen tractor mass 25355 lb (11500 kg)



## HYDRAULIC PERFORMANCE

CATEGORY: III

Quick Attach: No

OECD Static test

Maximum force exerted through whole range: 15800 lbs (70.3 kN)

i) Sustained pressure at compensator cutoff: 2875 psi (198 bar)

**three outlet sets combined**

ii) Pump delivery rate at minimum pressure: 43.5 GPM (164.8 l/min)

iii) Pump delivery rate at maximum

hydraulic power: 39.4 GPM (149.1 l/min)

Delivery pressure: 2175 psi (150 bar)

Power: 49.9 HP (37.2 kW)

**single outlet set**

ii) Pump delivery rate at minimum pressure: 36.7 GPM (138.8 l/min)

iii) Pump delivery rate at maximum

hydraulic power: 28.8 GPM (108.8 l/min)

Delivery pressure: 2655 psi (183 bar)

Power: 44.6 HP (33.3 kW)

### HITCH DIMENSIONS AS TESTED—NO LOAD

	inch	mm
A	30.3	770
B	17.9	454
C	18.4	468
D	17.3	440
E	9.4	240
F	10.6	270
G	40.3	1025
H	1.7	42
I	21.5	545
J	29.7	755
K	23.3	591
L	52.4	1332
M	25.8	655
N	39.3	997
O	9.1	230
P	56.7	1440
Q	43.2	1098
R	38.2	970

