

SUMMARY OF OECD TEST 2700–NEBRASKA SUMMARY 851

CASE IH MAXXUM 115 DIESEL

24 SPEED

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)	
MAXIMUM POWER AND FUEL CONSUMPTION						
Rated Engine Speed—(PTO speed—1109 rpm)						
108.1 (80.6)	2100	6.50 (24.62)	0.419 (0.255)	16.62 (3.27)	0.29 (1.11)	
Standard Power Take-off Speed (1000 rpm)						
112.8 (84.1)	1893	6.39 (24.19)	0.395 (0.240)	17.66 (3.48)	0.29 (1.10)	
Maximum Power (1 hour)						
113.0 (84.3)	1800	6.30 (23.86)	0.388 (0.236)	17.94 (3.54)	0.28 (1.05)	

VARYING POWER AND FUEL CONSUMPTION

108.1 (80.6)	2100	6.50 (24.62)	0.419 (0.255)	16.62 (3.27)	0.29 (1.11)	Air temperature
97.9 (73.0)	2238	6.29 (23.80)	0.447 (0.272)	15.57 (3.07)	0.27 (1.02)	68°F (20°C)
74.2 (55.3)	2256	5.26 (19.90)	0.494 (0.301)	14.10 (2.78)	0.22 (0.83)	Relative humidity
49.8 (37.1)	2273	4.21 (15.93)	0.590 (0.359)	11.82 (2.33)	0.15 (0.58)	29%
25.2 (18.8)	2292	3.15 (11.94)	0.874 (0.532)	7.99 (1.57)	0.07 (0.28)	Barometer
---	2317	2.37 (8.97)	---	---	---	29.3" Hg (99.1 kPa)

Maximum torque - 347 lb.-ft. (470 Nm) at 1500 rpm

Maximum torque rise - 28.1%

Torque rise at 1700 engine rpm - 24%

Power increase at 1800 engine rpm - 5%

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)	Temp. °F (°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
Power at Rated Engine Speed—12th(2MR) Gear								
87.3 (65.1)	7645 (34.0)	4.28 (6.89)	2100	4.4	0.485 (0.295)	14.37 (2.83)	187 (86)	84 (29)
75% of Pull at Rated Engine Speed—12th(2MR) Gear								
70.8 (52.8)	5735 (25.5)	4.63 (7.46)	2250	3.4	0.572 (0.348)	12.18 (2.40)	187 (86)	84 (29)
50% of Pull at Rated Engine Speed—12th(2MR) Gear								
48.1 (35.9)	3815 (17.0)	4.73 (7.61)	2269	2.2	0.654 (0.398)	10.66 (2.10)	189 (87)	84 (29)
75% of Pull at Reduced Engine Speed—13th(3MT) Gear								
70.5 (52.6)	5710 (25.4)	4.63 (7.45)	1924	3.3	0.522 (0.318)	13.35 (2.63)	185 (85)	84 (29)
50% of Pull at Reduced Engine Speed—13th(3MT) Gear								
48.3 (36.0)	3820 (17.0)	4.74 (7.62)	1947	2.2	0.627 (0.381)	11.12 (2.19)	185 (85)	84 (29)

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

Dates of tests: May, 2012.

Manufacturer: CNH Europe Holding S.A. 24, Boulevard Royal L-2449 Luxembourg

CONSUMABLE FLUIDS: Fuel No. 2 Diesel Specific gravity converted to 60°/60°F (15°/15°C) 0.837 Fuel weight 6.97 lbs/gal (0.835 kg/l) Diesel Exhaust Fluid (DEF) 32% aqueous urea solution DEF weight 9.08 lbs/gal (1.091 kg/l) Oil SAE 10W30 API service classification CH-4 Transmission and hydraulic lubricant Akcela Nexplure fluid Front axle lubricant Akcela Nexplure fluid

ENGINE: Make CNH Diesel Type six cylinder vertical with turbocharger, air to air intercooler and SCR (selective catalyst reduction) exhaust treatment Serial No. 882756 Crankshaft lengthwise Rated engine speed 2100 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. ZBBE01001 Tread width rear 56.3" (1430 mm) to 84.0" (2134 mm) front 61.4" (1560 mm) to 88.8" (2256 mm) Wheelbase 95.3" (2627 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 0.98 (1.58) second 1.20 (1.93) third 1.44 (2.31) fourth 1.75 (2.82) fifth 2.05 (3.30) sixth 2.46 (3.96) seventh 2.50 (4.03) eighth 2.98 (4.80) ninth 3.01 (4.84) tenth 3.39 (5.45) eleventh 3.64 (5.86) twelfth 4.41 (7.09) thirteenth 5.15 (8.28) fourteenth 5.95 (9.58) fifteenth 6.29 (10.12) sixteenth 7.28 (11.72) seventeenth 7.48 (12.04) eighteenth 8.72 (14.03) nineteenth 9.15 (14.73) twentieth 10.66 (17.16) twenty-first 12.45 (20.04) twenty-second 15.23 (24.51) twenty-third 18.12 (29.16) twenty-fourth 22.16 (35.67) reverse 1.01 (1.63), 1.24 (1.99), 1.49 (2.39), 1.81 (2.92), 2.12 (3.41), 2.54 (4.09), 2.59 (4.17), 3.08 (4.96), 3.11 (5.00), 3.72 (5.99), 3.76 (6.06), 4.55 (7.33), 5.31 (8.56), 6.16 (9.91), 6.51 (10.47), 7.53 (12.12), 7.74 (12.46), 9.01 (14.51), 9.46 (15.23), 11.03 (17.75), 12.87 (20.72), 15.75 (25.35), 18.73 (30.15), 22.92 (36.88)

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)	Consumption Hp.hr/gal (kW.h/l)	Temp. ^o F(°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
9th(1MR) Gear									
77.1 (57.5)	10655 (47.4)	2.71 (4.37)	2107	13.8	0.549 (0.334)	12.69 (2.50)	187 (86)	77 (25)	29.0 (98.2)
10th(2MT) Gear									
85.7 (63.9)	10430 (46.4)	3.08 (4.96)	2052	8.6	0.501 (0.305)	13.91 (2.74)	185 (85)	77 (25)	29.0 (98.2)
11th(4LR) Gear									
85.8 (64.0)	9780 (43.5)	3.29 (5.30)	2031	8.1	0.503 (0.306)	13.86 (2.73)	187 (86)	84 (29)	29.0 (98.2)
12th(2MR) Gear									
90.3 (67.3)	8720 (38.8)	3.88 (6.24)	1917	5.2	0.472 (0.287)	14.77 (2.91)	185 (85)	77 (25)	29.0 (98.2)
13th(3MT) Gear									
88.9 (66.3)	7780 (34.6)	4.29 (6.90)	1800	4.4	0.472 (0.287)	14.77 (2.91)	185 (85)	77 (25)	29.0 (98.2)
14th(1HT) Gear									
90.0 (67.1)	6765 (30.1)	4.99 (8.02)	1799	3.9	0.444 (0.270)	15.68 (3.09)	185 (85)	79 (26)	29.0 (98.2)
15th(3MR) Gear									
91.1 (67.9)	6465 (28.7)	5.28 (8.50)	1800	3.6	0.439 (0.267)	15.89 (3.13)	187 (86)	79 (26)	29.0 (98.2)
16th(1HR) Gear									
90.5 (67.5)	5530 (24.6)	6.14 (9.88)	1800	3.2	0.465 (0.283)	14.97 (2.95)	185 (85)	81 (27)	29.0 (98.2)
17th(4MT) Gear									
89.8 (67.0)	5330 (23.7)	6.32 (10.17)	1800	3.0	0.464 (0.282)	15.02 (2.96)	185 (85)	82 (28)	29.0 (98.2)
18th(2HT) Gear									
87.8 (65.5)	4450 (19.8)	7.40 (11.91)	1800	2.6	0.472 (0.287)	14.77 (2.91)	185 (85)	84 (29)	29.0 (98.2)
19th(4MR) Gear									
89.7 (66.9)	4315 (19.2)	7.80 (12.54)	1804	2.5	0.467 (0.284)	14.92 (2.94)	185 (85)	86 (30)	29.0 (98.2)
20th(2HR) Gear									
88.2 (65.8)	3640 (16.2)	9.09 (14.62)	1800	2.1	0.485 (0.295)	14.37 (2.83)	185 (85)	88 (31)	29.0 (98.2)

TRACTOR SOUND LEVEL WITH CAB	Front Wheel Drive	
	Disengaged dB(A)	Engaged dB(A)
At no load in 12th(2MR) gear	70.1	69.4
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 600/65R38; **,12 (80)
 Two 480/65R28; **,12 (80)
 15.9 in (405 mm)
 7770 lb (3525 kg)
 4830 lb (2190 kg)
 12600 lb (5715 kg)

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 1593 engine rpm or 1000 rpm at 1894 engine rpm
Unladen tractor mass 12435 lb (5640 kg)

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 6900 lbs (3130 kg), with 80 mm lift cylinders. The performance figures on this summary were taken from a test conducted under the OECD Code 2 test procedure.

We, the undersigned, certify that this is a true summary of data from OECD Report No. **2700**, Nebraska Summary 851, January 17, 2013.

Roger M. Hoy
 Director

M.R. Riley
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 Board of Tractor Test Engineers

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 override 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 TAKE-OFF PERFORMANCE

Power HP (kW)	Crank shaft speed rpm	Diesel Consumption Gal/hr (l/h)	lb/hp.hr (kg/kW.h)	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—1109 rpm)						
127.1 (94.8)	2100	7.33 (27.74)	0.401 (0.244)	17.35 (3.42)	0.31 (1.17)	
Standard Power Take-off Speed (1000 rpm)						
132.2 (98.6)	1893	7.27 (27.52)	0.383 (0.233)	18.19 (3.58)	0.32 (1.20)	
Maximum Power (1 hour)						
136.1 (101.5)	1800	7.36 (27.84)	0.376 (0.229)	18.50 (3.64)	0.31 (1.17)	

VARYING POWER AND FUEL CONSUMPTION

127.1 (94.8)	2100	7.33 (27.74)	0.401 (0.244)	17.35 (3.42)	0.31 (1.17)	Air temperature
114.1 (85.1)	2220	7.02 (26.57)	0.429 (0.261)	16.26 (3.20)	0.28 (1.06)	68°F (20°C)
86.6 (64.6)	2245	5.85 (22.16)	0.472 (0.287)	14.80 (2.91)	0.22 (0.84)	Relative humidity
58.3 (43.5)	2266	4.66 (17.63)	0.557 (0.339)	12.52 (2.47)	0.16 (0.61)	45%
29.4 (21.9)	2289	3.38 (12.81)	0.806 (0.490)	8.68 (1.71)	0.11 (0.42)	Barometer
---	2319	2.31 (8.73)	---	---	---	29.2" Hg (98.9 kPa)

Maximum torque - 423 lb.-ft. (573 Nm) at 1500 rpm
 Maximum torque rise - 32.9%
 Torque rise at 1700 engine rpm - 29%
 Power increase at 1800 engine rpm - 7%

HYDRAULIC PERFORMANCE

CATEGORY: II

Quick Attach: None

OECD Static test

Maximum force exerted through whole range: 6720 lbs (29.9 kN) (80 mm lift cylinders)
7980 lbs (35.5 kN) (90 mm lift cylinders)

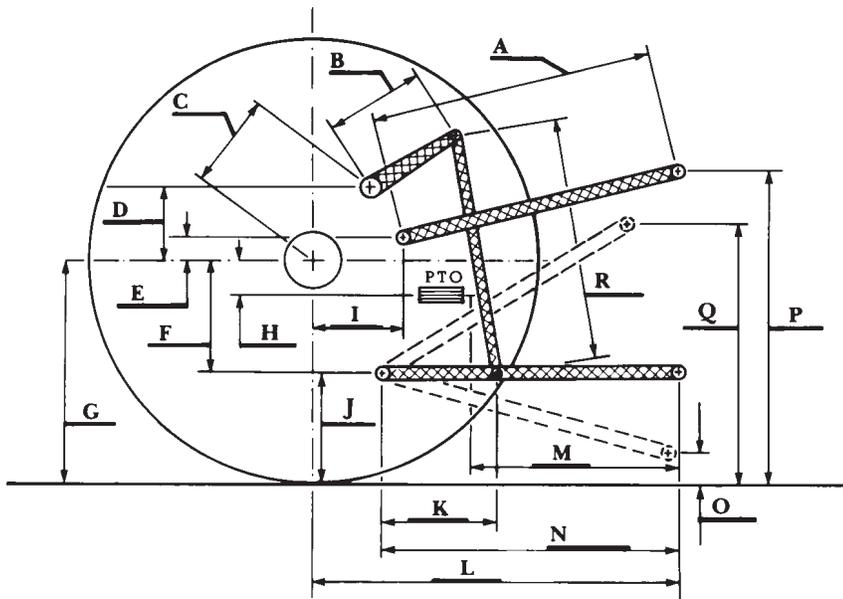
i) Sustained pressure of the open relief valve: 3000 psi (207 bar)

ii) Pump delivery rate at minimum pressure: 28.5 GPM (78.5 l/min)

iii) Pump delivery rate at maximum hydraulic power: 18.8 GPM (71.0 l/min)

Delivery pressure: 2395 psi (165 bar)

Power: 26.2 HP (19.5 kW)



HITCH DIMENSIONS AS TESTED—NO LOAD

	inch	mm
A	29.9	760
B	12.2	310
C	15.6	395
D	14.6	370
E	7.9	200
F	9.3	235
G	32.5	825
H	1.0	25
I	16.9	430
J	23.2	590
K	19.9	505
L	46.4	1178
M	23.9	608
N	39.8	1010
O	7.9	200
P	47.2	1200
Q	34.3	870
R	32.5	825