SUMMARY OF OECD TEST 2702-NEBRASKA SUMMARY 855 CASE IH MAXXUM 140 DIESEL 17 SPEED

POWER TAKE-OFF PERFORMANCE

	-	OWLIN	111111-	OII I	LIUON	MINGE
Power HP (kW)	Crank shaft speed rpm	Diesel Consumption Gal/hr (l/h)	lb/hp.hr (kg/kW.h)	Hp.hr/ga (kW.h/l)	D.E.F. Consumption al Gal/hr (l/h)	Mean Atmospheric Conditions
	MA	XIMUM P	OWER	AND F	UEL CON	SUMPTION
		Rated Er	ngine Spee	ed—(PTC	speed—1109	Prpm)
129.7	2100	7.54	0.405	17.19	0.35	
(96.8)		(28.55)	(0.247)	(3.39)	(1.32)	
					Speed (1000 r	pm)
138.5	1893	7.58	0.381	18.27	0.36	
(103.3)		(28.69)	(0.232)	(3.60)	(1.36)	
		Maxii	num Pow	er (1 hou	r)	
139.2	1800	7.53	0.376	18.48	0.34	
(103.8)		(28.50)	(0.229)	(3.64)	(1.30)	
ARYING	POWE	R AND FUI	EL CON	SUMPT	ION	
129.7	2100	7.54	0.406	17.19	0.35	Airtemperature
(96.8)		(28.55)	(0.247)	(3.39)	(1.32)	1
111.0	2114	6.71	0.421	16.55	0.29	75°F(24°C)
(82.8)		(25.40)	(0.256)	(3.26)	(1.10)	, ,
84.1	2135	5.49	0.455	15.32	0.24	Relative humidity
(62.7)		(20.77)	(0.277)	(3.02)	(0.89)	,
56.5	2156	4.39	0.543	12.85	0.16	60%
(42.1)		(16.62)	(0.330)	(2.53)	(0.60)	
		2.00	0.734	9.51	0.09	Barometer
28.7	2171	3.02	0.734	3.31		
28.7 (21.4)	2171	3.02 (11.41)	(0.447)	(1.87)	(0.33)	
	2171					29.2" Hg (98.9kPa)

Maximum torque - 425 lb.-ft. (576 Nm) at 1500 rpm

Maximum torque rise - 31.0%

Torque rise at 1700 engine rpm - 28%

Power increase at 1800 engine rpm - 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 Con lb/hp.hr (kg/kW.h)	sumption Hp.hr/gal (kW.h/l)	Temp. cool- ing med	°F (°C) Air dry bulb	Barom. inch Hg (kPa)
			Ma	aximum	Power—7th	Gear			
96.6	7530	4.81	2100	4.8	0.540	12.89	183	82	28.8
(72.0)	(33.5)	(7.74)			(0.329)	(2.54)	(84)	(28)	(97.6)
		7	75% of Pu	ll at Ma	ximum Pow	er—7th Gea	r		
74.6	5645	4.96	2139	3.6	0.603	11.56	185	82	28.8
(55.6)	(25.1)	(7.98)			(0.367)	(2.28)	(85)	(28)	(97.6)
			60% of Pu	ll at Ma	ximum Pow	er—7th Gea	r		
50.7	3755	5.06	2161	2.6	0.723	9.64	185	82	28.8
(37.8)	(16.7)	(8.14)			(0.440)	(1.90)	(85)	(28)	(97.6)
		75%	of Pull a	ıt Redu	ced Engine	Speed—8th	Gear		
74.6	5685	4.92	1904	3.7	0.550	12.67	183	82	28.8
(55.6)	(25.3)	(7.91)			(0.335)	(2.50)	(84)	(28)	(97.6)
		50%	of Pull a	t Redu	ced Engine	Speed—8th	Gear		
50.6	3755	5.05	1933	2.6	0.645	10.80	183	82	28.8
(37.7)	(16.7)	(8.12)			(0.393)	(2.13)	(84)	(28)	(97.6)

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

Dates of tests: May to June, 2012.

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

FUEL and OIL: Fuel No. 2 Diesel Specific gravity converted to 60°/60°F (15°/15°C) 0.837 Fuel weight $6.97 \, \text{lbs/gal} \, (0.835 \, kg/l)$ 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 Nexplore fluid Front axle lubricant Akcela Nexplore fluid

ENGINE: Make CNH Diesel Type six cylinder vertical with turbocharger, air to air intercooler and SCR (selective catalyst reduction) exhaust treatment Serial No. 882721 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 105.5" (2679 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 1.44 (2.31) second 1.76 (2.83) third 2.14(3.45) fourth 2.63(4.23) fifth 3.37 (5.42) sixth 4.13 (6.65) seventh 5.03 (8.10) eighth 5.60 (9.02) ninth 6.17 (9.93) tenth 6.88 (11.07) eleventh 8.37 (13.47) twelfth 10.27 (16.53) thirteenth 13.17 (21.19) fourteenth 16.16 (26.00) fifteenth 19.67 (31.66) sixteenth 25.28 (40.68) seventeenth 25.28 (40.68) electronically limited reverse 1.42 (2.28), 1.74 (2.80), 2.12 (3.41), 2.60 (4.18), 3.33 (5.36), 4.08 (6.57), 4.97 (8.00), 5.54 (8.92), 6.10(9.81), 6.80(10.94), 8.28(13.32), 10.15(16.34), 13.02(20.95), 15.96(25.69), 19.44(31.29), 23.85 (38.38)

DRAWBAR PERFORMANCE

(Unballasted - Front Drive Engaged) MAXIMUM POWER IN SELECTED GEARS

Power	Drawbar	Speed	Crank-	Slip		sumption		.°F(°C)	Barom.
Hp	pull	mph	shaft	%	lb/hp.hr	Hp.hr/gal	cool-	Air	inch
(kW)	lbs (kN)	(km/h)	speed		(kg/kW.h)	(kW.h/l)	ing med	dry bulb	Hg (kPa)
	(KIV)		rpm				mea	Duid	(KI a)
		0.04	04.44		4th Gear	44 90	405		20.0
71.1	11380	2.34	2141	14.7	0.592	11.78	185	81	28.9
(53.0)	(50.6)	(3.77)			(0.360)	(2.32)	(85)	(27)	(97.9)
					5th Gear				
92.5	11370	3.05	2116	11.6	0.542	12.84	185	79	28.9
(69.0)	(50.6)	(4.91)			(0.330)	(2.53)	(85)	(26)	(97.9)
					6th Gear				
105.0	11150	3.53	1952	9.0	0.508	13.70	185	79	28.9
(78.3)	(49.6)	(5.68)			(0.309)	(2.70)	(85)	(26)	(98.0)
					7th Gear				
105.7	9665	4.10	1810	6.0	0.483	14.42	184	79	28.9
(78.8)	(43.0)	(6.60)			(0.294)	(2.84)	(84)	(26)	(98.0)
					21.6				
107 5	0000	4 5 5	1005	F 0	8th Gear	1 4 77	105	0.1	00.0
107.5	8830	4.57	1805	5.8	0.472	14.77	185	81	28.9
(80.2)	(39.3)	(7.35)			(0.287)	(2.91)	(85)	(27)	(97.7)
					9th Gear				
107.8	8005	5.05	1802	5.1	0.475	14.67	184	81	28.9
(80.4)	(35.6)	(8.13)			(0.289)	(2.89)	(84)	(27)	(97.7)
					10th Gear				
110.0	7310	5.64	1799	4.6	0.483	14.42	185	82	28.9
(82.0)	(32.5)	(9.08)			(0.294)	(2.84)	(85)	(28)	(97.7)
					11th Gear				
104.5	5645	6.94	1798	3.6	0.487	14.29	184	82	28.9
(77.9)	(25.1)	(11.17)			(0.297)	(2.82)	(84)	(28)	(97.7)
					12th Gear				
103.4	4520	8.58	1800	2.9	0.487	14.31	184	82	28.9
(77.1)	(20.1)	(13.80)			(0.296)	(2.82)	(84)	(28)	(97.7)

Clutchwet 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** 13580 lb (6160 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 II test procedure.

We, the undersigned, certify that this is a true summary of data from OECD Report No. **2702**, Nebraska Summary 855, January 17, 2013.

Roger M. Hoy Director

> M.R. Riley P.J. Jasa J.D. Luck Board of Tractor Test Engineers

	Front Wheel Drive			
TRACTOR SOUND LEVEL WITH CAB	Disengaged dB(A)	$\begin{array}{c} \textbf{Engaged} \\ \textbf{dB(A)} \end{array}$		
At no load in 7th gear	69.9	71.1		
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 650/65R38; **;12 (80) Two 540/65R28; **;12 (80) 20.7 in (525 mm) 8280 lb (3755 kg) 5465 lb (2480 kg) 13745 lb (6235 kg) 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 overide 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	Crank	Diesel			D.E.F.	
HP	shaft	Consumption		** 1 /	Consumpti	
(kW)	speed rpm	Gal/hr (<i>l/h</i>)	lb/hp.hr (kg/kW.h)	Hp.hr/g (kW.h/l)	al Gal/hr (<i>l/h</i>)	Mean Atmospheric Conditions
	MA	XIMUM	POWER	AND I	TUEL CO	ONSUMPTION
			Engine Spe			109 грт)
144.7	2100	8.29	0.399	17.45	0.42	
(107.9)		(31.40)	(0.243)	(3.44)	(1.58)	
		Stand	lard Power	Take-off	Speed (100	00 rpm)
151.5	1893	8.31	0.382	18.23	0.40	
(113.0)		(31.46)	(0.232)	(3.59)	(1.50)	
		Max	imum Pow	er (1 hou	r)	
153.4	1800	8.29	0.376	18.51	0.38	
(114.4)		(31.38)	(0.229)	(3.65)	(1.43)	
ARYING	POWE	R AND FU	JEL CON	SUMPT	ION	
144.7	2100	8.29	0.399	17.45	0.42	Air temperature
(107.9)		(31.40)	(0.243)	(3.44)	(1.58)	
130.5	2226	7.81	0.417	16.70	0.36	79°F (26°C)
(97.3)		(29.58)	(0.254)	(3.29)	(1.37)	,
99.0	2253	6.46	0.455	15.32	0.27	Relative humidity
(73.8)		(24.46)	(0.277)	(3.02)	(1.03)	•
66.5	2275	4.89	0.512	13.60	0.18	55%
(49.6)		(18.49)	(0.312)	(2.68)	(0.70)	
33.7	2292	3.40	0.703	9.91	0.11	Barometer
(25.1)		(12.85)	(0.427)	(1.95)	(0.41)	
	2313	2.34				$29.2" \operatorname{Hg}(98.9 kPa)$
		(8.87)				

Maximum torque rise - 31.8% Torque rise at 1700 engine rpm - 26% Power increase at 1800 engine rpm - 6%

HYDRAULIC PERFORMANCE

CATEGORY: II

Quick Attach: None OECD Static test

 $\begin{array}{ll} 6720 \, \mathrm{lbs} & (29.9 \, kN) \, (80 \, \mathrm{mm \, lift \, cylinders}) \\ 7980 \, \mathrm{lbs} & (35.5 \, kN) \, (90 \, \mathrm{mm \, lift \, cylinders}) \end{array}$ Maximum force exerted through whole range:

i) Sustained pressure of the open relief valve: ii) Pump delivery rate at minimum pressure: iii) Pump delivery rate at maximum

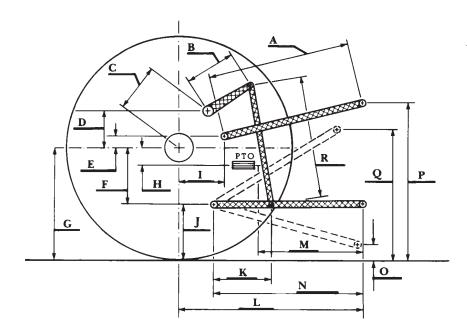
2975 psi (205 bar)

27.0 GPM (102.1 l/min)

hydraulic power: Delivery pressure:

24.8 GPM (94.1 l/min) 2685 psi (185 bar) 38.9 HP (29.0 kW)

Power:



B 12.2 310 C 15.6 395 D 14.6 376 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		inch	mm
C 15.6 393 D 14.6 376 E 7.9 200 F 9.3 235 G 32.5 825 H 1.0 25 I 16.9 436 J 23.2 596 K 19.9 505 L 46.4 1178 M 23.9 608 N 39.8 1016 O 7.9 200		29.9	760
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		12.2	310
E 7.9 200 F 9.3 235 G 32.5 825 H 1.0 25 I 16.9 436 J 23.2 590 K 19.9 505 L 46.4 1178 M 23.9 608 N 39.8 1016 O 7.9 200		15.6	395
F 9.3 2335 G 32.5 825 H 1.0 25 I 16.9 436 J 23.2 596 K 19.9 505 L 46.4 1178 M 23.9 608 N 39.8 1016 O 7.9 206)	14.6	370
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		7.9	200
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		9.3	235
I 16.9 436 J 23.2 596 K 19.9 505 L 46.4 1178 M 23.9 608 N 39.8 1016 O 7.9 206		32.5	825
J 23.2 590 K 19.9 505 L 46.4 1178 M 23.9 608 N 39.8 1010 O 7.9 200	I	1.0	25
K 19.9 505 L 46.4 1178 M 23.9 608 N 39.8 1010 O 7.9 200		16.9	430
K 19.9 505 L 46.4 1178 M 23.9 608 N 39.8 1010 O 7.9 200		23.2	590
M 23.9 608 N 39.8 1010 O 7.9 200		19.9	505
N 39.8 1010 O 7.9 200		46.4	1178
O 7.9 200	1	23.9	608
	I	39.8	1010
)	7.9	200
P 47.2 1200		47.2	1200
Q 34.3 870)	34.3	870
R 32.5 825		32.5	825