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SUMMARY OF OECD TESTS 2009 & 2010—NEBRASKA SUMMARY 402

CASE IH JX 55 DIESEL

12 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-614 rpm)					
45.1 (33.6)	2500	2.85 (10.80)	0.433 (0.263)	15.80 (3.11)	
Standard Power Take-off Speed (540 rpm)					
42.4 (31.6)	2200	2.60 (9.83)	0.419 (0.255)	16.33 (3.22)	

VARYING POWER AND FUEL CONSUMPTION

45.1 (33.6)	2500	2.85 (10.80)	0.433 (0.263)	15.80 (3.11)	Air temperature
41.2 (30.7)	2687	2.63 (9.97)	0.437 (0.266)	15.63 (3.08)	81°F (27°C)
31.2 (23.3)	2715	2.10 (7.96)	0.460 (0.280)	14.87 (2.93)	Relative humidity
21.1 (15.7)	2753	1.62 (6.13)	0.527 (0.320)	13.00 (2.56)	35%
10.6 (7.9)	2770	1.20 (4.55)	0.776 (0.472)	8.82 (1.74)	Barometer
--	2800	0.87 (3.29)	--	--	27.1" Hg (91.9 kPa)

Maximum Torque - 115.3 lb.-ft. (156.3 Nm) at 1500 rpm
 Maximum Torque Rise - 21.8%
 Torque rise at 2000 engine rpm - 12%

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)	Hp.hr/gal (kW.h/l)	Temp. °F (°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
Maximum Power—10th (III-2) Gear									
37.8 (28.2)	1645 (7.31)	8.62 (13.87)	2492	7.1	0.523 (0.318)	13.20 (2.60)	165 (74)	72 (22)	27.1 (91.9)
75% of Pull at Maximum Power—10th (III-2) Gear									
30.3 (22.6)	1230 (5.48)	9.22 (14.83)	2654	6.7	0.612 (0.373)	11.27 (2.22)	165 (74)	72 (22)	27.1 (91.9)
50% of Pull at Maximum Power—10th (III-2) Gear									
20.7 (15.4)	825 (3.66)	9.39 (15.11)	2694	6.3	0.764 (0.465)	9.04 (1.78)	165 (74)	72 (22)	27.1 (91.9)
75% of Pull at Reduced Engine Speed—11th (III-3) Gear									
Available gear ratios did not allow the running of this test sequence.									
50% of Pull at Reduced Engine Speed—11th (III-3) Gear									
20.0 (14.9)	800 (3.56)	9.38 (15.10)	1977	6.2	0.632 (0.385)	10.91 (2.15)	165 (74)	72 (22)	27.1 (91.9)

Locations of tests: DAEMTC (The Directorate of Agricultural Equipment and Machinery Testing Centre) Ankara, Turkey and CNH America LLC Burr Ridge, IL USA

Dates of Test: PTO & Drwb: February - May, 2002
 Sound tests: December 3, 2003
 Hydraulic flow: August 8, 2003
 Lift tests: December 3, 2003

Manufacturer: CNH America LLC, 700 State St. Racine, Wi. 53404 USA

FUEL and OIL: Fuel No. 2 Diesel **Specific gravity converted to 60°/60° F (15°/15°C)** 0.821
Fuel weight 6.84 lbs/gal (0.820 kg/l) **Oil SAE** 20W-50 **API service classification** CF-4/SG
Transmission and hydraulic lubricant BP Terrac Tractan 8 fluid **Front axle lubricant** BP Terrac Tractan 8 fluid

ENGINE: Make Iveco Diesel **Type** three cylinder vertical **Serial No.** 815558 **Crankshaft** lengthwise
Rated engine speed 2500 **Bore and stroke** 3.937" x 4.528" (100.0 mm x 115.0 mm) **Compression ratio** 17.0 to 1 **Displacement** 165 cu in (2710 ml)
Starting system 12 volt **Lubrication** pressure **Air cleaner** paper element **Oil filter** two cartridges **Fuel filter** one paper element **Muffler** underhood **Exhaust** vertical **Cooling medium temperature control** thermostat

CHASSIS: **Type** 2WD & front wheel assist **Serial No.** 2WD - HFD000001, FWA-HFD000609
Tread width rear 56.1" (1424 mm) to 75.7" (1924 mm) front 2WD- 56.0" (1422 mm) to 71.7" (1822 mm) FWA-56.9"(1445 mm) to 73.8"(1875 mm)
Wheel base 2WD-85.6" (2175 mm), FWA-83.4"(2119 mm) **Hydraulic control system** direct engine drive **Transmission** selective gear fixed ratio **Nominal travel speeds mph (km/h)** first 1.06 (1.71) second 1.63 (2.63) third 2.22 (3.58) fourth 2.48 (3.99) fifth 3.19 (5.13) sixth 3.82 (6.15) seventh 5.20 (8.37) eighth 5.84 (9.40) ninth 7.44 (11.98) tenth 9.00 (14.48) eleventh 12.24 (19.69) twelfth 17.53 (28.21) reverse 1.06 (1.71), 1.64 (2.64), 2.23 (3.59), 2.49 (4.00), 3.20 (5.15), 3.83 (6.17), 5.21 (8.39), 5.86 (9.43), 7.47(12.02), 9.02 (14.52), 12.27 (19.75), 17.59 (28.30) **Clutch** dual dry disc operated by foot pedal **Brakes** wet disc operated by two foot pedals which can be locked together **Steering** hydrostatic **Power take-off** 540 rpm at 2200 engine rpm and 1000 rpm at 2382 engine rpm **Unladen tractor mass** 2WD - 5655 lb (2566 kg), FWA - 6075 lb (2756 kg)

DRAWBAR PERFORMANCE
(Unballasted – Front Drive Engaged)
MAXIMUM POWER IN SELECTED GEARS

Power Hp (kW)	Drawbar pull lbs (kN)	Speed mph (km/h)	Crankshaft speed rpm	Slip %	Fuel Consumption lb/hp.hr (kg/kW.h)	Consumption Hp.hr/gal (kW.h/l)	Temp. °F cooling med	Temp. °C Air dry bulb	Barom. inch Hg (kPa)
5th (I-4) Gear									
29.4 (21.9)	3680 (16.38)	2.99 (4.81)	2661	14.8	0.653 (0.397)	10.57 (2.08)	167 (75)	66 (19)	27.1 (91.7)
6th (II-2) Gear									
32.0 (23.8)	3540 (15.75)	3.39 (5.45)	2507	14.5	0.616 (0.375)	11.21 (2.21)	167 (75)	66 (19)	27.1 (91.7)
7th (II-3) Gear									
33.0 (24.6)	2540 (11.29)	4.88 (7.85)	2508	9.5	0.597 (0.363)	11.57 (2.28)	167 (75)	66 (19)	27.1 (91.7)
8th (III-1) Gear									
34.6 (25.8)	2355 (10.47)	5.51 (8.86)	2505	9.0	0.571 (0.347)	12.08 (2.38)	167 (75)	66 (19)	27.1 (91.7)
9th (II-4) Gear									
35.1 (26.2)	1855 (8.26)	7.09 (11.41)	2504	8.1	0.562 (0.342)	12.28 (2.42)	167 (75)	66 (19)	27.1 (91.7)
10th (III-2) Gear									
37.8 (28.2)	1645 (7.31)	8.62 (13.87)	2492	7.1	0.523 (0.318)	13.20 (2.60)	167 (75)	66 (19)	27.1 (91.7)

REPAIRS AND ADJUSTMENTS: No repairs or adjustments.

NOTE: The PTO and drawbar results shown on this report are from tests conducted on the New Holland TD 55D.

REMARKS: All test results were determined from observed data obtained in accordance with official OECD test procedures. The performance results on this summary were taken from OECD tests conducted under the Code II Test Code procedure.

We, the undersigned, certify that this is a true summary of data from OECD Reports No. **2009 & 2010**, Nebraska Summary 402, January 14, 2004.

Leonard L. Bashford
 Director

M.F. Kocher
 V.I. Adamchuk
 W.P. Campbell
 Board of Tractor Test Engineers

TRACTOR SOUND LEVEL WITHOUT CAB	Front Wheel Drive	
	Engaged dB(A)	Disengaged dB(A)
At no load in 7th(II-3) Gear	86.6	86.5
Bystander	-	-

Tested Without Ballast

TIRES AND WEIGHT	Front Wheel Assist		2WD
	Rear tires - No., size, ply & psi (kPa)	Two 14.9-30; 6; 22(150)	Two 14.9-30; 6; 22 (150)
Front tires - No., size, ply & psi (kPa)	Two 9.5-24; 6; 32(220)	Two 7.50-16; 6; 32(220)	
Height of Drawbar	13.6 in (345 mm)	14.0 in (355 mm)	
Static Weight with operator-Rear	3880 lb (1760 kg)	3960 lb (1796 kg)	
- Front	2360 lb (1071 kg)	1865 lb (845 kg)	
- Total	6240 lb (2831 kg)	5825 lb (2641 kg)	

DRAWBAR PERFORMANCE

(Unballasted - 2WD)

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)	Temp.°F cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
Maximum Power—9th(II-4) Gear									
37.7 (28.1)	2055 (9.14)	6.88 (11.08)	2490	9.3	0.557 (0.339)	12.38 (2.44)	167 (75)	72 (22)	27.0 (91.5)
75% of Pull at Maximum Power—9th(II-4) Gear									
30.9 (23.1)	1540 (6.86)	7.53 (12.11)	2677	7.8	0.621 (0.378)	11.12 (2.19)	167 (75)	72 (22)	27.0 (91.5)
50% of Pull at Maximum Power—9th(II-4) Gear									
21.1 (15.7)	1025 (4.57)	7.71 (12.40)	2725	7.2	0.724 (0.441)	9.53 (1.88)	167 (75)	72 (22)	27.0 (91.5)
75% of Pull at Reduced Engine Speed—10th(III-2) Gear									
31.0 (23.1)	1540 (6.86)	7.54 (12.14)	2221	7.8	0.522 (0.317)	13.22 (2.60)	167 (75)	72 (22)	27.0 (91.5)
50% of Pull at Reduced Engine Speed—10th(III-2) Gear									
21.3 (15.9)	1035 (4.60)	7.74 (12.45)	2258	7.0	0.562 (0.342)	12.28 (2.42)	167 (75)	72 (22)	27.0 (91.5)

MAXIMUM POWER IN SELECTED GEARS

25.2 (18.8)	2665 (11.86)	3.55 (5.72)	2669	14.9	0.722 (0.439)	9.55 (1.88)	167 (75)	75 (24)	27.0 (91.5)
6th(II-2) Gear									
32.1 (23.9)	2635 (11.73)	4.56 (7.34)	2516	14.8	0.615 (0.374)	11.22 (2.21)	167 (75)	75 (24)	27.0 (91.5)
7th(II-3) Gear									
35.8 (26.7)	2535 (11.27)	5.29 (8.52)	2510	11.7	0.581 (0.354)	11.87 (2.34)	167 (75)	75 (24)	27.0 (91.5)
8th(III-1) Gear									
37.7 (28.1)	2055 (9.14)	6.88 (11.08)	2490	9.3	0.557 (0.339)	12.39 (2.44)	167 (75)	75 (24)	27.0 (91.5)
9th(II-4) Gear									
35.5 (26.5)	1575 (7.01)	8.46 (13.61)	2504	8.3	0.589 (0.358)	11.73 (2.31)	167 (75)	75 (24)	27.0 (91.5)
10th(III-2) Gear									

THREE POINT HITCH PERFORMANCE (OECD Static Test)

CATEGORY: II

Quick Attach: none

Maximum Force Exerted Through Whole Range: 3775 lbs (16.8 kN)

- i) Opening pressure of relief valve: NA
- Sustained pressure of the open relief valve: 2680 psi (185 bar)
- ii) Pump delivery rate at minimum pressure and rated engine speed: 11.9 GPM (45.2 l/min)
- iii) Pump delivery rate at maximum hydraulic power: 9.5 GPM (35.9 l/min)
- Delivery pressure: 2314 psi (160 bar)
- Power: 12.8 HP (9.5 kW)

THREE POINT HITCH PERFORMANCE

Observed Maximum Pressure psi. (bar)	2780 (192)
Location:	hydraulic manifold
Hydraulic oil temperature: °F (°C)	149 (65)
Location:	hydraulic sump
Category:	II
Quick attach:	none

SAE Static Test—System pressure 2470 psi (170 Bar)

Hitch point distance to ground level in. (mm)	8.0 (203)	15.0 (380)	22.0 (558)	29.0 (737)	36.0 (914)
Lift force on frame lb	5769	6055	5793	6060	5147
" " " " " " (kN)	(25.7)	(26.9)	(25.8)	(27.0)	(22.9)

HITCH DIMENSIONS AS TESTED—NO LOAD

	OECD test		SAE test	
	inch	mm	inch	mm
A	30.7	780	30.1	765
B	10.0	255	10.0	255
C	11.6	295	11.6	295
D	11.6	295	11.6	295
E	7.5	190	9.4	240
F	8.2	208	8.2	208
G	26.2	665	24.6	625
H	0.2	5	0.2	5
I	7.7	195	7.1	180
J	18.0	457	16.4	417
K	17.1	435	22.8	580
L	38.9	988	38.9	988
M	26.7	678	26.7	678
N	36.2	920	36.2	920
O	8.3	210	8.0	203
P	42.0	1067	35.4	899
Q	32.2	817	32.0	813
R	22.8	580	24.4	619

