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SUMMARY OF OECD TESTS 2013 & 2015—NEBRASKA SUMMARY 403
CASE IH JX 65 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
MAXIMUM POWER AND FUEL CONSUMPTION					
Rated Engine Speed (PTO speed-614 rpm)					
50.7 *(37.8)*	2500	3.03 *(11.48)*	0.409 *(0.249)*	16.70 *(3.29)*	
Standard Power Take-off Speed (540 rpm)					
47.7 *(35.6)*	2200	2.75 *(10.41)*	0.394 *(0.240)*	17.36 *(3.42)*	
VARYING POWER AND FUEL CONSUMPTION					
50.7 *(37.8)*	2500	3.03 *(11.48)*	0.409 *(0.249)*	16.70 *(3.29)*	Air temperature
46.3 *(34.5)*	2686	2.91 *(11.03)*	0.431 *(0.262)*	15.89 *(3.13)*	73°F *(23°C)*
35.1 *(26.2)*	2720	2.32 *(8.78)*	0.451 *(0.274)*	15.13 *(2.98)*	Relative humidity
23.7 *(17.7)*	2752	1.76 *(6.66)*	0.506 *(0.308)*	13.50 *(2.66)*	39%
11.9 *(8.9)*	2773	1.29 *(4.87)*	0.736 *(0.448)*	9.29 *(1.83)*	Barometer
-- --	2796	0.91 *(3.45)*	-- --	-- --	27.0" Hg *(91.5 kPa)*

Maximum Torque - 129.7 lb.-ft. *(175.8 Nm)* at 1300 rpm
Maximum Torque Rise - 21.8%
Torque rise at 2000 engine rpm - 11%

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									
41.5 *(30.9)*	1810 *(8.05)*	8.59 *(13.83)*	2495	6.8	0.487 *(0.296)*	14.16 *(2.79)*	169 *(76)*	72 *(22)*	27.0 *(91.5)*
75% of Pull at Maximum Power—10th (III-2) Gear									
33.5 *(25.0)*	1355 *(6.04)*	9.26 *(14.90)*	2663	5.9	0.579 *(0.352)*	11.93 *(2.35)*	169 *(76)*	72 *(22)*	27.0 *(91.5)*
50% of Pull at Maximum Power—10th (III-2) Gear									
22.9 *(17.1)*	905 *(4.03)*	9.47 *(15.24)*	2702	5.1	0.636 *(0.387)*	10.85 *(2.14)*	169 *(76)*	72 *(23)*	27.0 *(91.5)*
75% of Pull at Reduced Engine Speed—11th (III-3) Gear									
33.4 *(24.9)*	1360 *(6.06)*	9.21 *(14.82)*	1946	5.8	0.444 *(0.270)*	15.53 *(3.06)*	169 *(76)*	72 *(23)*	27.0 *(91.5)*
50% of Pull at Reduced Engine Speed—11th (III-3) Gear									
23.1 *(17.2)*	905 *(4.03)*	9.55 *(15.36)*	2003	5.1	0.523 *(0.318)*	13.20 *(2.60)*	169 *(76)*	72 *(23)*	27.0 *(91.5)*

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:March - 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.** 843033 **Crankshaft** lengthwise **Rated engine speed** 2500 **Bore and stroke** 4.094" x 4.528" *(104.0 mm x 115.0 mm)* **Compression ratio** 17.0 to 1 **Displacement** 179 cu in *(2931 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 - HFD000035, FWA-HFD000048 **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 - 6010 lb *(2726 kg)*, FWA - 6130 lb *(2780 kg)*

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)*	Hp.hr/gal *(kW.h/l)*	Temp.°F *(°C)* cool-ing med	Air dry bulb	Barom. inch Hg *(kPa)*
				5th (I-4) Gear					
29.1 *(21.7)*	3680 *(16.37)*	2.97 *(4.77)*	2666	15.1	0.644 *(0.392)*	10.71 *(2.11)*	169 *(76)*	72 *(22)*	27.0 *(91.5)*
				6th (II-2) Gear					
34.1 *(25.4)*	3640 *(16.20)*	3.51 *(5.65)*	2630	14.9	0.591 *(0.360)*	11.67 *(2.30)*	169 *(76)*	72 *(22)*	27.0 *(91.5)*
				7th (II-3) Gear					
37.7 *(28.1)*	2950 *(13.13)*	4.79 *(7.71)*	2504	10.4	0.539 *(0.328)*	12.79 *(2.52)*	169 *(76)*	72 *(22)*	27.0 *(91.5)*
				8th (III-1) Gear					
38.5 *(28.7)*	2645 *(11.77)*	5.46 *(8.79)*	2506	9.1	0.524 *(0.319)*	13.15 *(2.59)*	169 *(76)*	72 *(22)*	27.0 *(91.5)*
				9th (II-4) Gear					
40.3 *(30.1)*	2140 *(9.53)*	7.06 *(11.36)*	2509	8.0	0.500 *(0.304)*	13.81 *(2.72)*	169 *(76)*	72 *(22)*	27.0 *(91.5)*
				10th (III-2) Gear					
41.5 *(30.9)*	1810 *(8.05)*	8.59 *(13.83)*	2495	6.8	0.487 *(0.296)*	14.16 *(2.79)*	169 *(76)*	72 *(22)*	27.0 *(91.5)*

TRACTOR SOUND LEVEL WITHOUT CAB (2WD model)	dB(A)
At no load in 7th(II-3) Gear	86.3
Bystander	–

TIRES AND WEIGHT	Tested Without Ballast: 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)*	13.8 in *(350 mm)*
Static Weight with operator- Rear	3925 lb (*1780 kg)*	4100 lb *(1860 kg)*
- Front	2370 lb (*1075 kg)*	2075 lb *(941 kg)*
- Total	6295 lb (*2855 kg)*	6175 lb *(2801 kg)*

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 65D.

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. **2013** & **2015,** Nebraska Summary 403, January 14,2004.

Leonard L. Bashford
Director

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

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 *(°C)* cool-ing med	Air dry bulb	Barom. inch Hg *(kPa)*
Maximum Power—10th(III-2) Gear									
40.9	1845	8.30	2489	9.6	0.506	13.64	167	72	27.0
(30.5)	*(8.22)*	*(13.36)*			*(0.308)*	*(2.69)*	*(75)*	*(22)*	*(91.5)*
75% of Pull at Maximum Power—10th(III-2) Gear									
33.2	1385	8.97	2671	9.0	0.604	11.42	167	72	27.0
(24.7)	*(6.17)*	*(14.44)*			*(0.368)*	*(2.25)*	*(75)*	*(22)*	*(91.5)*
50% of Pull at Maximum Power—10th(III-2) Gear									
22.8	925	9.23	2705	7.5	0.725	9.54	174	72	27.0
(17.0)	*(4.11)*	*(14.86)*			*(0.440)*	*(1.88)*	*(79)*	*(22)*	*(91.5)*
75% of Pull at Reduced Engine Speed—11th(III-3) Gear									
32.9	1375	8.96	1957	8.8	0.542	12.74	167	72	27.0
(24.5)	*(6.12)*	*(14.42)*			*(0.329)*	*(2.51)*	*(75)*	*(22)*	*(91.5)*
50% of Pull at Reduced Engine Speed—11th(III-3) Gear									
22.7	920	9.23	1983	7.2	0.629	10.98	174	72	27.0
(16.9)	*(4.10)*	*(14.86)*			*(0.382)*	*(2.16)*	*(79)*	*(22)*	*(91.5)*
MAXIMUM POWER IN SELECTED GEARS									
7th(II-3) Gear									
34.2	2645	4.85	2670	14.8	0.589	11.72	175	79	27.0
(25.5)	*(11.77)*	*(7.80)*			*(0.358)*	*(2.31)*	*(79)*	*(26)*	*(91.6)*
8th(III-1) Gear									
37.5	2620	5.37	2610	14.1	0.555	12.44	175	79	27.0
(28.0)	*(11.65)*	*(8.64)*			*(0.338)*	*(2.45)*	*(79)*	*(26)*	*(91.6)*
9th(II-4) Gear									
39.0	2155	6.79	2507	11.4	0.531	12.99	175	79	27.0
(29.1)	*(9.58)*	*(10.92)*			*(0.323)*	*(2.56)*	*(79)*	*(25)*	*(91.6)*
10th(III-2) Gear									
40.9	1850	8.30	2489	9.6	0.506	13.64	175	79	27.0
(30.5)	*(8.22)*	*(13.36)*			*(0.308)*	*(2.69)*	*(79)*	*(25)*	*(91.6)*

THREE POINT HITCH PERFORMANCE (OECD Static Test)

CATEGORY: II
Quick Attach: none
Maximum Force Exerted Through Whole Range: 3620 lbs *(16.1 kN)*

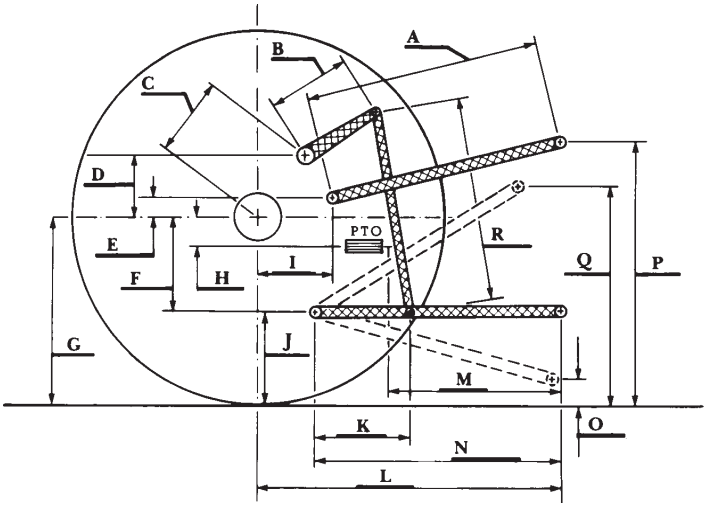
i) Opening pressure of relief valve:	NA	
Sustained pressure of the open relief valve:	2680 psi	*(185 bar)*
ii) Pump delivery rate at minimum pressure and rated engine speed:	11.9 GPM	*(45.2 l/min)*
iii) Pump delivery rate at maximum hydraulic power:	9.5 GPM	*(35.9 l/min)*
Delivery pressure:	2314 psi	*(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	30.9	*785*	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	39.2	*995*	39.2	*995*
M	26.2	*665*	26.2	*665*
N	36.2	*920*	36.2	*920*
O	8.1	*205*	8.0	*203*
P	42.0	*1067*	35.4	*899*
Q	34.7	*882*	32.0	*813*
R	22.4	*570*	24.4	*619*

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