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SUMMARY OF OECD TESTS 2179 & 2180—NEBRASKA SUMMARY 459
CASE IH JX 55 DIESEL
12 SPEED
Chassis Serial numbers HFJ013287 and higher

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)					
47.5 *(35.4)*	2500	2.95 *(11.17)*	0.429 *(0.261)*	16.09 *(3.17)*	
Standard Power Take-off Speed (540 rpm)					
45.2 *(33.7)*	2200	2.81 *(10.65)*	0.429 *(0.261)*	16.09 *(3.17)*	
VARYING POWER AND FUEL CONSUMPTION					
47.5 *(35.4)*	2500	2.95 *(11.17)*	0.429 *(0.261)*	16.09 *(3.17)*	Air temperature
43.9 *(32.7)*	2717	2.73 *(10.32)*	0.429 *(0.261)*	16.09 *(3.17)*	84°F *(29°C)*
33.3 *(24.8)*	2743	2.39 *(9.05)*	0.496 *(0.302)*	13.91 *(2.74)*	Relative humidity
22.3 *(16.6)*	2764	1.81 *(6.86)*	0.561 *(0.341)*	12.30 *(2.42)*	40%
11.1 *(8.3)*	2778	1.36 *(5.14)*	0.839 *(0.510)*	8.22 *(1.62)*	Barometer
-- --	2803	0.91 *(3.45)*	-- --	-- --	26.8" Hg *(90.9 kPa)*

Maximum Torque - 133.7 lb.-ft. *(181.2 Nm)* at 1350 rpm
Maximum Torque Rise - 34.0%
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—8th (III-1) Gear									
39.6 *(29.5)*	2590 *(11.51)*	5.73 *(9.22)*	2500	4.1	0.534 *(0.325)*	12.93 *(2.55)*	160 *(71)*	80 *(27)*	27.0 *(91.5)*
75% of Pull at Maximum Power—8th (III-1) Gear									
32.9 *(24.5)*	1940 *(8.63)*	6.35 *(10.22)*	2725	2.5	0.593 *(0.361)*	11.62 *(2.29)*	160 *(71)*	80 *(27)*	27.0 *(91.5)*
50% of Pull at Maximum Power—8th (III-1) Gear									
22.5 *(16.8)*	1295 *(5.76)*	6.51 *(10.47)*	2758	1.3	0.719 *(0.437)*	9.60 *(1.89)*	160 *(71)*	80 *(27)*	27.0 *(91.5)*
75% of Pull at Reduced Engine Speed—9th (II-4) Gear									
32.8 *(24.5)*	1940 *(8.63)*	6.34 *(10.20)*	2132	2.5	0.527 *(0.321)*	13.10 *(2.58)*	162 *(72)*	80 *(27)*	27.0 *(91.5)*
50% of Pull at Reduced Engine Speed—9th (II-4) Gear									
22.6 *(16.8)*	1295 *(5.76)*	6.54 *(10.52)*	2172	1.3	0.612 *(0.373)*	11.27 *(2.22)*	162 *(72)*	80 *(27)*	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: August - September, 2004

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)*** 0.829 **Fuel weight** 6.90 lbs/gal *(0.827 kg/l)* **Oil SAE** 20W-50 **API service classification** DM/12 **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.** *639-907861* **Crankshaft** lengthwise **Rated engine speed** 2500 **Bore and stroke** 4.094" x 4.528" *(104.0 mm x 115.0 mm)* **Compression ratio** 18.0 to 1 **Displacement** 179 cu in *(2930 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-J6R2AA, FWA-J6S7AA **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" *(2140 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 2381 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)*	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)*
				4th (II-1) Gear					
32.5 *(24.2)*	5180 *(23.05)*	2.35 *(3.78)*	2719	15.0	0.632 *(0.384)*	10.92 *(2.15)*	156 *(69)*	73 *(23)*	27.0 *(91.6)*
				5th (I-4) Gear					
36.3 *(27.1)*	4715 *(20.96)*	2.89 *(4.65)*	2504	11.5	0.586 *(0.356)*	11.78 *(2.32)*	162 *(72)*	73 *(23)*	27.0 *(91.6)*
				6th (II-2)Gear					
37.7 *(28.1)*	3950 *(17.57)*	3.58 *(5.75)*	2498	8.6	0.566 *(0.345)*	12.18 *(2.40)*	162 *(72)*	73 *(23)*	27.0 *(91.6)*
				7th (II-3) Gear					
38.0 *(28.3)*	2815 *(12.53)*	5.06 *(8.14)*	2498	4.8	0.552 *(0.336)*	12.49 *(2.46)*	162 *(72)*	73 *(23)*	27.0 *(91.6)*
				8th (III-1) Gear					
39.6 *(29.5)*	2590 *(11.51)*	5.73 *(9.22)*	2500	4.1	0.534 *(0.325)*	12.93 *(2.55)*	163 *(73)*	73 *(23)*	27.0 *(91.6)*
				9th (II-4) Gear					
38.1 *(28.4)*	1945 *(8.65)*	7.35 *(11.83)*	2501	3.6	0.551 *(0.335)*	12.54 *(2.47)*	163 *(73)*	73 *(23)*	27.0 *(91.6)*
				10th (III-2) Gear					
37.7 *(28.1)*	1580 *(7.04)*	8.94 *(14.38)*	2499	2.9	0.555 *(0.338)*	12.44 *(2.45)*	163 *(73)*	73 *(23)*	27.0 *(91.6)*

TRACTOR SOUND LEVEL WITHOUT CAB	Front Wheel Drive Engaged dB(A)	Front Wheel Drive Disengaged dB(A)
At no load in 7th(II-3) Gear	86.4	86.2
Bystander	–	–

TIRES AND WEIGHT	Tested Without Ballast: Front Wheel Assist	Tested Without Ballast: 2WD
Rear tires - No.,size, ply & psi(*kPa*)	Two 14.9-30; 6; 20(*140*)	Two 14.9R30;**;20(*140*)
Front tires - No.,size, ply & psi(*kPa*)	Two 9.5-24; 6; 30(*210*)	Two 7.50-16; 6;39 *(270)*
Height of Drawbar	12.8 in *(325 mm)*	12.8 in *(325 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)*

REPAIRS AND ADJUSTMENTS: No repairs or adjustments.

NOTE 1: The PTO and drawbar results shown on this report are from tests conducted on the New Holland TD60D.

NOTE 2: The performance data on this summary applies to tractor chassis serial numbers HFJ013287 and higher.

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 claim of 13.6 GPM *(51.7 lpm)* hydraulic flow. 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. **2179** & **2180,** Nebraska Summary 459, April 1,2005.

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)*	Hp.hr/gal *(kW.h/l)*	Temp.°F *(°C)* cool-ing med	Air dry bulb	Barom. inch Hg *(kPa)*
				Maximum Power—8th(III-1) Gear					
35.2	2435	5.42	2501	7.8	0.592	11.67	153	72	27.2
(26.3)	*(10.83)*	*(8.73)*			*(0.361)*	*(2.30)*	*(67)*	*(22)*	*(92.0)*
				75% of Pull at Maximum Power—8th(III-1)Gear					
28.8	1825	5.91	2674	6.0	0.650	10.61	153	72	27.2
(21.5)	*(8.12)*	*(9.51)*			*(0.396)*	*(2.09)*	*(67)*	*(22)*	*(92.0)*
				50% of Pull at Maximum Power—8th(III-1) Gear					
20.0	1220	6.14	2723	4.1	0.768	8.98	153	72	27.2
(14.9)	*(5.42)*	*(9.88)*			*(0.467)*	*(1.77)*	*(67)*	*(22)*	*(92.0)*
				75% of Pull at Reduced Engine Speed—9th(II-4) Gear					
28.8	1835	5.88	2085	6.0	0.547	12.63	153	72	27.2
(21.5)	*(8.17)*	*(9.46)*			*(0.333)*	*(2.49)*	*(67)*	*(22)*	*(92.0)*
				50% of Pull at Reduced Engine Speed—9th(II-4) Gear					
20.0	1225	6.13	2130	4.1	0.618	11.17	153	72	27.2
(14.9)	*(5.44)*	*(9.86)*			*(0.376)*	*(2.20)*	*(67)*	*(22)*	*(92.0)*
				MAXIMUM POWER IN SELECTED GEARS					
				5th(I-4) Gear					
29.1	3790	2.88	2634	15.0	0.690	10.00	153	72	27.1
(21.7)	*(16.86)*	*(4.63)*			*(0.420)*	*(1.97)*	*(67)*	*(22)*	*(91.9)*
				6th(II-2)Gear					
32.2	3625	3.33	2500	13.6	0.648	10.66	153	72	27.1
(24.0)	*(16.13)*	*(5.35)*			*(0.394)*	*(2.10)*	*(67)*	*(22)*	*(91.9)*
				7th(II-3) Gear					
33.6	2665	4.73	2500	9.6	0.619	11.15	153	72	27.1
(25.1)	*(11.86)*	*(7.61)*			*(0.377)*	*(2.20)*	*(67)*	*(22)*	*(91.9)*
				8th(III-1) Gear					
35.2	2435	5.42	2501	7.8	0.593	11.67	153	72	27.1
(26.3)	*(10.83)*	*(8.73)*			*(0.361)*	*(2.30)*	*(67)*	*(22)*	*(91.9)*
				9th(II-4) Gear					
34.5	1840	7.03	2501	6.3	0.604	11.42	153	72	27.1
(25.7)	*(8.19)*	*(11.31)*			*(0.368)*	*(2.25)*	*(67)*	*(22)*	*(91.9)*
				10th(III-2) Gear					
33.8	1470	8.61	2504	5.1	0.614	11.23	153	72	27.1
(25.2)	*(6.54)*	*(13.86)*			*(0.374)*	*(2.21)*	*(67)*	*(22)*	*(91.9)*

THREE POINT HITCH PERFORMANCE (OECD Static Test)

CATEGORY: II
Quick Attach: none
Maximum Force Exerted Through Whole Range: 4000 lbs *(17.8 kN)*

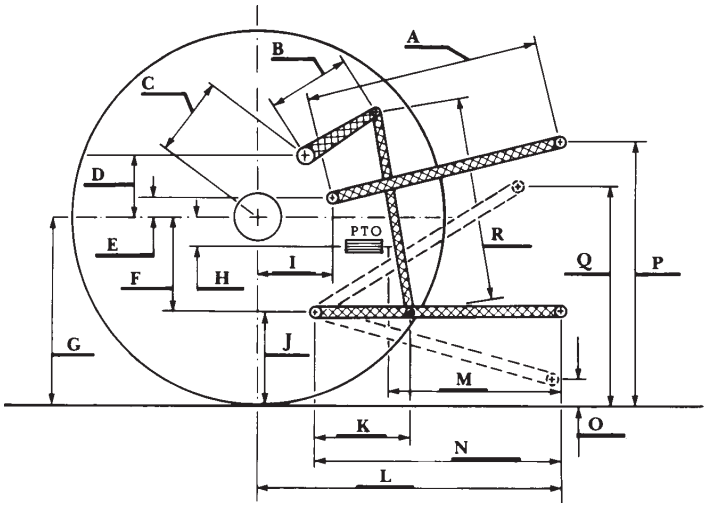
i) Opening pressure of relief valve:	NA	
Sustained pressure of the open relief valve:	2680 psi	*(185 bar)*
ii) Pump delivery rate at minimum pressure and rated engine speed:	11.9 GPM	*(44.9 l/min)*
iii) Pump delivery rate at maximum hydraulic power:	11.4 GPM	*(43.0 l/min)*
Delivery pressure:	2465 psi	*(170 bar)*
Power:	16.4 HP	*(12.2 kW)*

THREE POINT HITCH PERFORMANCE (SAE test)

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	11.8	*300*	11.8	*300*
D	11.8	*300*	11.8	*300*
E	7.5	*190*	9.4	*240*
F	8.2	*208*	8.2	*208*
G	26.2	*665*	24.6	*625*
H	0.8	*21*	0.8	*21*
I	7.6	*193*	8.1	*206*
J	18.0	*457*	16.4	*417*
K	17.1	*435*	22.8	*580*
L	38.7	*983*	38.7	*983*
M	25.5	*648*	25.5	*648*
N	36.0	*915*	36.0	*915*
O	7.1	*180*	8.0	*203*
P	42.0	*1067*	35.4	*927*
Q	35.6	*905*	32.0	*813*
R	22.8	*580*	24.4	*619*