OECD APPROVAL # 1629 (Restricted code)
Date of approval: 26 August, 1996

NEBRASKA TRACTOR TESTING LABORATORY
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UNIVERSITY OF NEBRASKA - EAST CAMPUS
LINCOLN, NEBRASKA 68583-0832, USA

REPORT ON TEST IN ACCORDANCE WITH OECD RESTRICTED CODE (CODE II) OR THE OFFICIAL TESTING OF AGRICULTURAL TRACTORS



CASE IH MAGNUM 7250 - MFWD (4WD)
30 km/h version - 18 speed transmission

MANUFACTURED BY	**Case Corporation** **700 State Street** **Racine, Wisconsin 53404 USA**
NEBRASKA TEST NO.	**1712**
TEST DATE	**30 April through 13 May, 1996**

This test report provides the results of the tests conducted in accordance with the OECD Standard Test Code for the Official Testing of Agricultural Tractor Performance - C(87)53 Final-Annex II, Restricted Code.

This report has been approved by the OECD Coordinating Centre in Paris (CEMAGREF) on 26 August, 1996 for the Case IH Magnum 7250 MFWD, 30 km/h version - 18-speed with OECD test number 1629

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GENERAL SPECIFICATIONS.

Manufacturers name/address	Case Corporation 700 State Street Racine, WI, 53404, USA
Location of tractor assembly	Case Corporation 24th and Mead Streets Racine, WI, 53404, USA
Submitted for test by	The manufacturer
Selected for test by	The manufacturer in agreement with the test station.
Place of running in	Case Corporation Racine Tractor Engineering, Racine, Wisconsin
Duration of running in	95 hours
Location of Test	Nebraska Tractor Test Lab. Lincoln, Nebraska,

SPECIFICATIONS OF TRACTOR

Make/Model/Type	Case IH Magnum/7250-4/MFWD; Unit construction 30 km/h version, 18-speed transmission
Number of driving wheels	2 or 4
Serial number	*JJA0065023*
1st Serial number	*JJA0065000*

ENGINE.

Make	Consolidated Diesel Co
Model	6TA-830
Type	Diesel, direct injection, turbocharged and aftercooled
Serial Number	*45260171*

Cylinders

Number/disposition	6, in-line, vertical
Bore x stroke	114.0 mm x 135.0 mm
Capacity	8268 cm^3
Compression Ratio	16.5:1
Arrangement of valves	Overhead
Cylinder liners	Wet, replaceable

Turbo-charging

Make/Model/Type	Holset/HX40W/Exhaust gas driven with wastegate control
Pressure	131-171 kPa-rated speed and load

Fuel System

Feed system	Engine driven transfer pump
Make/Type/Model of filters	Fleetguard/FF5038, FF5052/Spin-on cartridges

Number of filters	Two
Fuel tank capacity	359 l
Make/Model/Type Injection Pump	Robert Bosch/P3000 RQVK/in line
Pump Serial number	5702375321
Production setting of pump	
Flow Rate (Rated Eng.Spd and full load)	42.1 ± 2.0 kg/h
Fuel density	0.841 kg/liter
Make/Model/Type of injectors	Robert Bosch/J926787/17 mm or Stanadyne/J920526/17 mm
Injection timing	$22^{1}7^{0} \pm 2^{0}$ BTDC; Lock timed at TDC $\pm 2^{0}$
Injection pressure	30.0-31.0 MPa

Governor

Make/Model/Type	Robert Bosch/RQVK/Variable speed/Mechanical
Governed engine speed range	From 925 to 2457 rev/min
Rated engine speed	2200 rev/min
High-idle speed range	2450 +/- 80 rpm

Air Cleaner.

Pre-cleaner	Integral with air cleaner
Make/Model/Type	Donaldson/PSH00-1790/Aspirated
Air intake location	Underhood; ahead of radiator
Main Cleaner	
Make/Model/Type	Donaldson/EGB11-0077/or Nelson 1198A/Dry, dual element pleated paper
Location of main cleaner	Underhood
Maintenance indicator	Service indicator on digital instrument cluster

Lubrication system.

Type of feed pump	Full pressure, positive displacement.
Type of filters	Full flow/spin-on/dual filter
Number	One
Oil cooler	Water to oil intercooler

Cooling system.

Type of coolant	Liquid
Type of pump	Centrifugal,belt driven
Fan specification	Viscous drive fan
Number of fan blades	6
Fan diameter	600 mm
Coolant system capacity	25.5 liter
Type of temperature control	Two thermostats
Superpressure	103 kPa

Starting system.

Make/Model/Type	Nippondenso/F114.0/Solenoid engaged
Power Rating	4.0 kW
Cold starting aid	Ether spray in intake manifold
Safety device	Electrical lockout on transmission controls

Electrical system.

Voltage	12 Volt
Alternator	
Make/Model/Type	Bosch/N1/Alternator; belt drive
Power rating	110 Amp. at 2200 engine rpm
Batteries	
Number & connection	2-12 V batteries in parallel
Rating	180 amp-hours per battery at 20 hour rating 950 Cold crank amps per battery 185 min. reserve cap/battery (SAE J537)

Exhaust system.

Make/Model/Type	Nelson(muffler)/23839A/Vertical
Location	External muffler integral with vertical exhaust stack; right front corner of cab

TRANSMISSION

Clutch. (travel)

Make/Model/Type	Case International/multi-plate/oil cooled
Number of plates	9 friction plates
Plate diameter	228.5 mm
Method of operation	Hydraulic, pedal actuated.

Gear Box.

Make/Type	Case International/18 speed/full powershift; mechanical
Arrangement	Countershaft type with one 2-speed and two 3-speed constant mesh powershift modules
Number of gears	18 forward, 4 reverse controlled by single lever
Available options	Creeper gear with 6 forward and 2 reverse speeds
Oil cooler	Air/oil in front of radiator

Rear axle and final drives.

Make/model/Type	Case International; Crown wheel& pinion; differential and planetary reduction
Differential Lock /Type	Hydraulic
Method of engagement	Electrical; switch on console
Method of disengagement	Electrical; switch on console or activating brake pedals.

Front Axle and final drives.

Front Axle and final drives.

Make/Model/Type	Dana/070BP179-1/Crown wheel & pinion, differential & planetary reduction
Differential lock	
Type	Limited slip
Method of engagement	Self locking
Method of disengagement	Self unlocking

Total transmission ratios and travelling speeds
(18 speed transmission)

Gear Number	Number of engine revolutions for one revolution of the driving wheels	Nominal travelling speed at rated engine speed of 2200 rev/min km/h]
Forward		
1st	243.260	2.97
2nd	212.073	3.40
3rd	183.909	3.92
4th	160.331	4.50
5th	139.776	5.16
6th	121.856	5.92
7th	104.463	6.91
8th	91.070	7.92
9th	78.976	9.14
10th	68.851	10.48
11th	60.024	12.02
12th	52.328	13.79
13th	45.741	15.77
14th	39.877	18.09
15th	34.581	20.87
16th	30.148	23.93
17th	26.283	27.45
18th	22.913	31.49
Reverse		
R1	168.997	4.27
R2	147.331	4.90
R3	72.572	9.94
R4	63.268	11.40

Calculated with a tire dynamic radius index of 905 mm (ISO 4251/1-1992)
Number of revolutions of front wheels for one revolution of rear wheels 1.3304

Total transmission ratios and travelling speeds

(18 speed transmission plus optional 6 forward/2 reverse Creeper gears)
Not fitted on tested tractor.

Gear Number	Number of engine revolutions for one revolution of the driving wheels	Nominal travelling speed at rated engine speed of 2200 rev/min [km/h]
Forward		
1st Creeper	835.817	0.86
2nd Creeper	631.893	1.14
3rd Creeper	480.256	1.50
4th Creeper	358.923	2.01
5th Creeper	71.354	2.66
6th Standard	243.260	2.97
7th Standard	212.073	3.40
8th Creeper	206.234	3.50
9th Standard	183.909	3.92
10th "	160.331	4.50
11th "	139.776	5.16
12th "	121.856	5.92
13th "	104.463	6.91
14th "	91.070	7.92
15th "	76.976	9.14
16th "	68.851	10.48
17th "	60.024	12.02
18th "	52.328	13.79
19th "	45.741	15.77
20th "	49.877	18.09
21th "	34.581	20.87
22th "	30.148	23.93
23th "	26.283	27.45
24th "	22.913	31.49
Reverse		
R1 Creeper	580.657	1.24
R2 Creeper	249.351	2.89
R3 Standard	168.997	4.27
R4 "	147.331	4.90
R5 "	72.572	9.94
R6 "	63.268	11.40

Calculated with a tire dynamic radius index of 905 mm (ISO 4251/1-1992)
Number of revolutions of front wheels for one revolution of rear wheels 1.3304

POWER - TAKE - OFF.

Main Power-Take-Off.

Type	Independent
Method of engagement	Hydraulically actuated multi-plate wet clutch operated by lever, independent of main drive clutch.
Number of shafts	One

Main Power-Take-Off proportional to engine speed - 1000 rev/min.

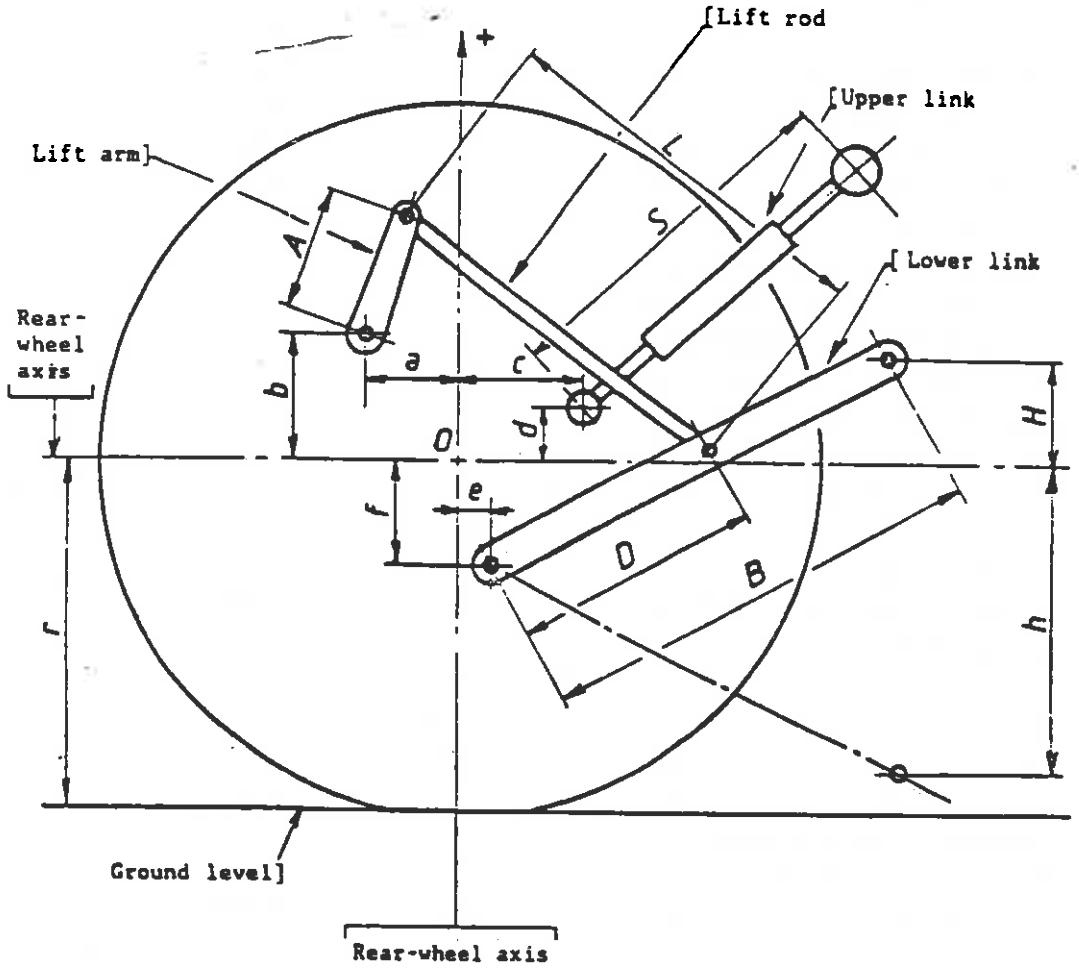
Location	Rear of tractor, vertical center plane.
Diameter of shaft	45 mm (ISO 500/1991)
Number of splines	20; (ISO 500/1991)
Height above ground	815 mm
Distance from median planeof tractor	0 mm
Distance behind rear axle	796 mm
PTO Speed at rated engine spd	1003 rev/min
Engine speed at Std. PTO spd	2193 rev/min
Ratio of Engine rpm to PTO rpm	2.193:1
Direction of rotation (viewed facing driving end)	Clockwise.

POWER LIFT.

Make/Type	Case International/3-point
Type of hydraulic system	Closed center, load sensing
Number/Type of cylinders	One internal; Two external; all single acting
Type of linkage lock for transport	Hydraulic, with locking notch on hand lever on console
Relief valve setting (Highpressure standby)	18.27 ± 0.35 MPa
Opening pressure of cylinder safety valve	19.65-20.34 MPa
Lift pump type	Axial piston, pressure and flow compensated
Power transmission to pump	Direct drive from transmission
Type/Number of filters	Two Spin-on cartridges; Cleanable suction screen inside reservoir
Location of oil reservoir	Transmission housing
Number/Type/Location of tapping points	3 pairs of ISO standard couplings at rear of tractor
Max. oil volume available for external cylinders	8.5 liter

THREE POINT LINKAGE.

- Category 3 in conformity with ISO 730/1-1990
- Category adaptor Quick attaching coupler



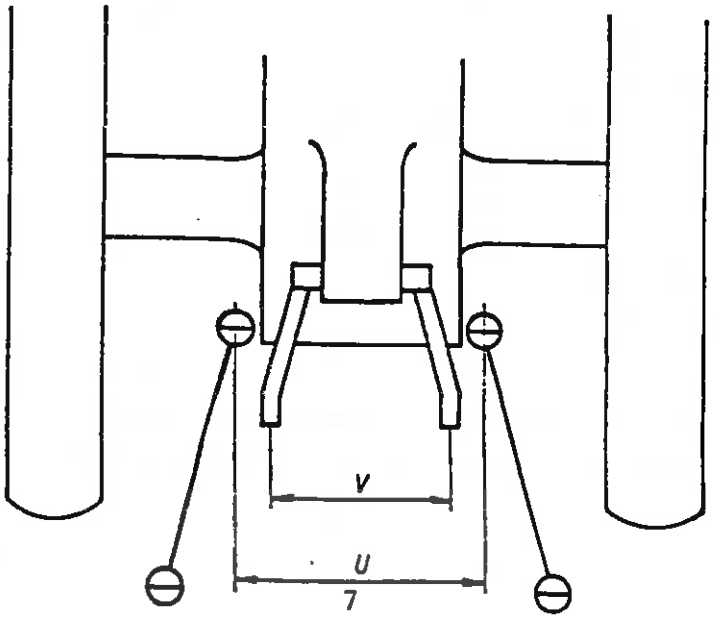


Table 1.1 - *LINKAGE GEOMETRY DIMENSIONS.

			Dimension or range [mm]	Settings used on test [mm]
Lift category			III	III
Rear Tire - Radius Index	(r)		905	same
Front Tire - Radius Index	(r')		695	same
Length of lift arms	(A)		381	same
Length of lower links	(B)		837	same
Distance of lift arm pivot from: horizontal	(a)		364	same
rear wheel axis: vertical	(b)		422	same
Horizontal distance between the 2 lower link points	(u)		604	same
Horizontal distance between the 2 lift arm end points	(v)		737	same
Length of upper link	(S)	from	600	
		to	831	635
Distance of upper link pivot from horizontal	(c)		627	same
rear wheel axis: vertical	(d)		169	
		and	250	
Distance of lower link pivot from: horizontal	(e)		445	same
rear wheel axis: vertical	(f)		332	same
Distance of lower link pivot points to lift rod pivot pts on lower links.	(D)		540	same
Length of lift rods	(L)	from	660	
		to	866	829
Height of lower hitch points relative to rear wheel axis In low position	(h)	from	739	
		to	406	664
In high position	(H)	from	7	
		to	338	54
Height above ground of lower hitch points when locked in transport position.		from	912	
		to	1243	959

*Calculated with a dynamic tire index of 905 mm - ISO 4251/1-1992

SWINGING DRAWBAR.

Type		Swinging
Height above ground:		Maximum 594 mm; Minimum 479 mm
Adjustments		Laterally adjustable with3 fore-aft positions
Distance of hitch point from rear wheel axis, horizontal	Position 1	1202 mm
	Position 2	1304 mm
	Position 3	1406 mm
Distance of hitch point from PTO shaft end		
Vertically		222 mm and 336 mm
Horizontally		
	Position 1	406 mm
	Position 2	508 mm
	Position 3	610 mm
Lateral adjustment (center of clevis) Right hand & Left hand		
	Position 1	210 mm
	Position 2	228 mm
	Position 3	246 mm
Distance of pivot point from rear wheel axle; Horizontally		50 mm forward
Diameter of drawbar pin hole		42 mm
Maximum vertical permissible load (static)		
	Positions 1,2	20.9 kN
	Position 3	16.5 kN

STEERING

Make/Model/Type	Eaton/266-4070-002/ hydrostatic steering control unit.
Method of operation	
Pump(s)	Cessna main axial piston pump through steering priority valve
Ram(s)	2 double-acting cylinders
Working pressure	16.203-16.892 MPa

BRAKES

Service brake.

Make/Model/Type	Case International/Oil immersed disc type

Method of operation	Hydraulic,operated by two pedals, separate or coupled.
Trailer brake	None

Parking brake.

Type	Transmission lock
Method of operation	Mechanical; Gear selector lever

WHEELS

Number.	
Front	Two; Driving and steering
Rear	Two or Four; Driving
Wheel base	3006 mm

Track width adjustment

	Minimum [mm]	Maximum [mm]	Adjustment method
Front	1527	2408	Reversing wheel rims and offset lug rims
Rear - Inner	1626	3953	Adjustable clamping edges on bar axle and offset lug rims

PROTECTIVE STRUCTURE

Make/Model/Type	Case International/CX-96/Cab
Manufacturer's name/address	Case Corporation, 700 State Street Racine, Wisconsin 53404, USA
Protective device	Cab, 4-post with charpy v-notch certified material
Tiltable	No
OECD approval number	CSS 096/9 for seat Sears SA 11035/Air suspension CSS 096/17 for seat Sears SA 12105/air suspension
Date of approval	16 March, 1994

STANDARD DRIVER'S SEAT

Make/Model/Type	Sears/SA12105/Air suspension
Type of suspension	Air ride; fore-aft isolator; adjustable for weight.
Type of damping	Air damping
Range of adjustment	
Longitudinal	152.4 mm
Vertical	76.2 mm

OPTIONAL DRIVER'S SEAT

Make/Model/Type	Sears/SA11035/Air suspension
Type of suspension	Air ride; fore-aft and lateral isolator; adjustable for weight
Type of damping	Air damping
Range of adjustment	
Longitudinal	152.4 mm
Vertical	76.2 mm

LIGHTING.

	Height above ground of center [mm]	Size [mm x mm]	Distance from outside edge of lights to median plane of tractor. [mm]
Headlights	1667	260.5x130.8	390
Rearlights	2104	100.0x 45.2	654
Reflectors-rear	2104	50.0x 45.2	554 and 704

TEST CONDITIONS.

Overall dimensions (unballasted).

Length [mm]	Width minimum [mm]	maximum [mm]	Height at top of protective structure [mm]	exhaust stack [mm]
5090	3048	4623	3077	3039

Ground clearance (unballasted)	489 mm
Clearance-limiting part	Drawbar anchor point

Tractor Mass (with Cab, full fuel tank)

		Without driver [kg]	With driver [kg]
Unballasted	Front	2589	2604
	Rear	5639	5699
	Total	8228	8303

Tire and track width specifications.

	Front	Rear
Make	Goodyear	Goodyear
Dimensions	16.9R30	20.8R42
Ply rating	2 star-137A8	2 star-155A8
Type	Radial	Radial
Max.load (tire manufacturer)	2460 kg/tire	4150 kg/tire
Max.load(tractor manufacturer)	2460 kg/tire	4150 kg/tire
Inflation pressure(tire mfr)	160 kPa	160 kPa
Dynamic Radius Index	695 mm	905 mm
Chosen track width	1875 mm	1960 mm

Oils and Lubrication.

Capacity and change interval

	Capacity liter	Oil change hours	Filter change hours
Engine (without filter)	19	250	250
Gear Box	191	1000	1000
Front axle	11.4	1000	------
Rear axle	Common with Gear box		
Hydraulic system	Common with Gear box		
Final drive-front	0.9 (each side)	1000	------
Final drive-rear	Common with Gear box		

Lubricant Specifications

	Recommended	Used during test
Engine oil		
Type	Case IH N0. 1 SAE 15W-40	same
Viscosity	14.9 cSt at 100°C	
Classification	API SG/CD/CE	
Transmission oil		
Type	Case IH Hy-tran Plus	same
Viscosity	6.3 cSt at 100°C	
Classification	NA	
Hydraulic fluid		
Type	Case IH Hytran Plus	same
Viscosity	6.3 cSt at 100°C	
Classification	NA	
Front differential and final drive		
Type	Case IH 135HEP Gear Lube; SAE 85W-140	same
Viscosity	27 cSt at 100°C	
Classification	API GL-5 or MIL-L-2105D	
Grease		
Type	Case IH Hi-Temp EP	
Number of lube points	26	

Fuel

Type	Premier; Grade 2-D,in conformity with the national standard
Density (Pto test)	0.841 kg/l at 15°C
(Drawbar test)	Same as PTO test
Cetane number	50.6
Viscosity	2.51 cSt at 38°C

COMPULSORY TESTS

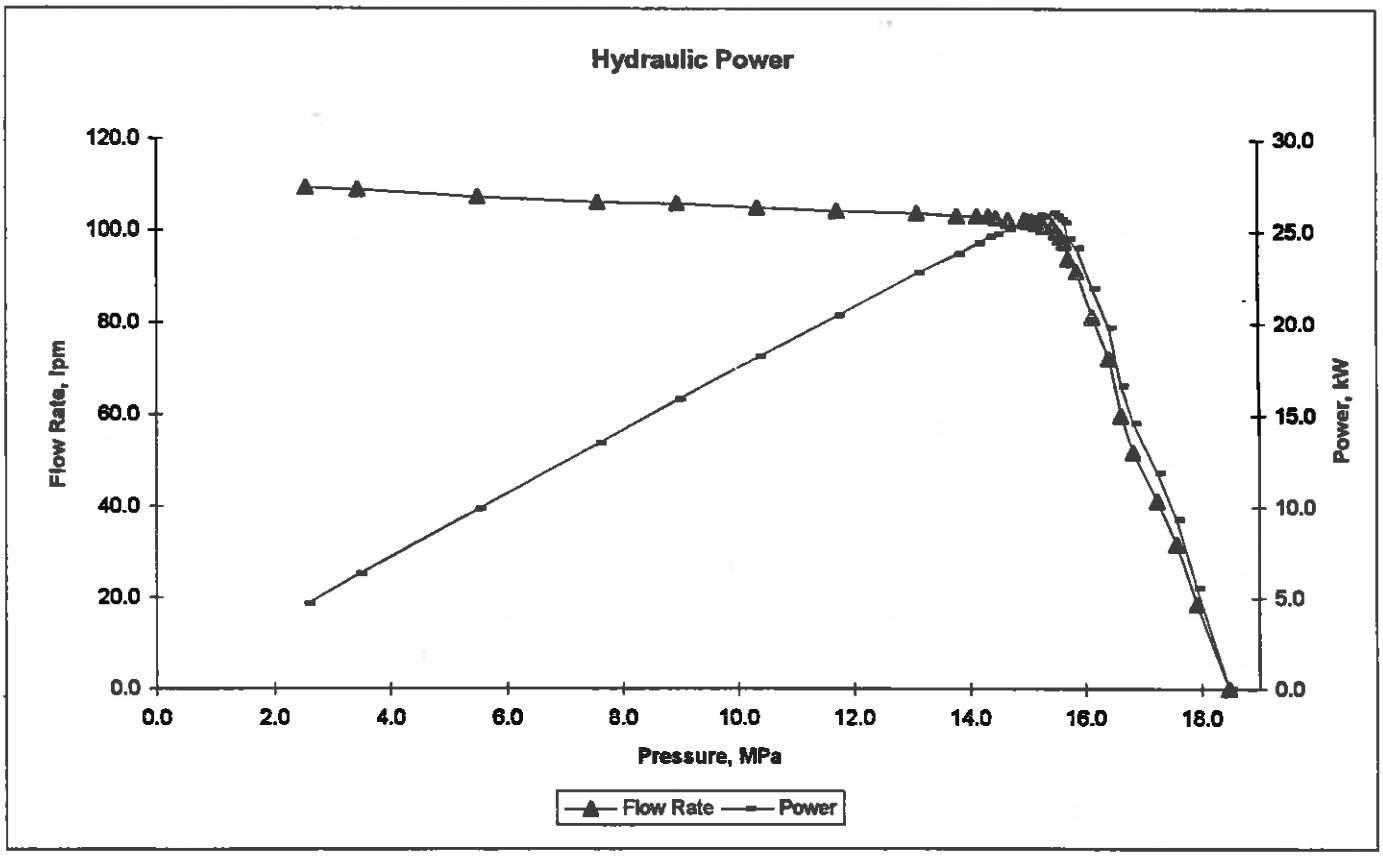
1. MAIN POWER TAKE OFF

Date: 6-May-96 Location: UNL Tractor Test Lab, Lincoln, NE, USA
Type of dynamometer: Eddy current, Eaton
Fuel Density 0.841 kg/l

Power kW / hp	Engine rev/min	PTO rev/min	l/h / gal/h	kg/h / lb/hr	kg/kW.h / lb/hp-h	kW.h/l / hp-h/gal
1.1 Maximum Power - 2 Hours						
181.18 / *242.97*	1950	889	50.14 / *13.25*	42.18 / *93.00*	0.233 / *0.383*	3.61 / *18.34*
1.2 Power at Rated Engine Speed - 1 hour						
161.74 / *216.90*	2200	1003	47.93 / *12.66*	40.32 / *88.89*	0.249 / *0.410*	3.37 / *17.13*
1.3 Power at Standard Power Take Off Speed - 1 hour						
161.74 / *216.90*	2200	1003	47.93 / *12.66*	40.32 / *88.89*	0.249 / *0.410*	3.37 / *17.13*
1.4 Part Loads						
1.4.1 Torque at maximum power at rated engine speed						
161.74 / *216.90*	2200	1003	47.93 / *12.66*	40.32 / *88.89*	0.249 / *0.410*	3.37 / *17.13*
1.4.2 85% of torque obtained in 1.4.1						
141.67 / *189.98*	2268	1034	43.35 / *11.45*	36.47 / *80.40*	0.257 / *0.423*	3.27 / *16.59*
1.4.3 75% of torque defined in 1.4.2						
108.29 / *145.22*	2307	1052	35.26 / *9.31*	29.66 / *65.40*	0.274 / *0.450*	3.07 / *15.59*
1.4.4 50% of torque defined in 1.4.2						
73.30 / *98.30*	2348	1070	27.34 / *7.22*	23.00 / *50.70*	0.314 / *0.516*	2.68 / *13.61*
1.4.5 25% of torque defined in 1.4.2						
37.49 / *50.28*	2389	1089	19.41 / *5.13*	16.33 / *36.00*	0.436 / *0.716*	1.93 / *9.81*
1.4.6 unloaded						
0.79 / *1.05*	2429	1107	12.13 / *3.20*	10.21 / *22.50*	12.987 / *21.350*	0.06 / *0.33*
1.5 Part Loads at Standard Power Take Off Speed						
1.5.1 Torque at maximum power						
161.74 / *216.90*	2200	1003	47.93 / *12.66*	40.32 / *88.89*	0.249 / *0.410*	3.37 / *17.13*
1.5.2 85% of torque obtained in 1.5.1						
141.67 / *189.98*	2268	1034	43.35 / *11.45*	36.47 / *80.40*	0.257 / *0.423*	3.27 / *16.59*
1.5.3 75% of torque defined in 1.5.2						
108.29 / *145.22*	2307	1052	35.26 / *9.31*	29.66 / *65.40*	0.274 / *0.450*	3.07 / *15.59*
1.5.4 50% of torque defined in 1.5.2						
73.30 / *98.30*	2348	1070	27.34 / *7.22*	23.00 / *50.70*	0.314 / *0.516*	2.68 / *13.61*
1.5.5 25% of torque defined in 1.5.2						
37.49 / *50.28*	2389	1089	19.41 / *5.13*	16.33 / *36.00*	0.436 / *0.716*	1.93 / *9.81*
1.5.6 unloaded						
0.79 / *1.05*	2429	1107	12.13 / *3.20*	10.21 / *22.50*	12.987 / *21.350*	0.06 / *0.33*

No load maximum engine speed:	2429	rev/min		
Equivalent torque at rated speed:	702	N.m	*518*	*lb-ft*
Equivalent torque at maximum power:	887	N.m	*654*	*lb-ft*
(engine speed:	1950	rev/min)		
Maximum equivalent crankshaft torque:	972	N.m	*717*	*lb-ft*
(engine speed:	1400	rev/min)		
Mean Dry bulb:	24	deg C	*76*	*deg F*
Wet bulb:	18	deg C	*64*	*deg F*
Relative Humidity	56	%		
Pressure:	98.0	kPa	*28.94*	*in Hg*
Maximum Coolant:	86	deg C	*187*	*deg F*
Engine Oil:	114	deg C	*238*	*deg F*
Fuel:	58	deg C	*136*	*deg F*
Air Intake:	31	deg C	*87*	*deg F*
Transmission/hydraulic oil:	56	deg C	*133*	*deg F*
Intake manifold pressure at rated speed:	147	kPa	*21.3*	*psig*
Intake manifold pressure at maximum power:	154	kPa	*22.3*	*psig*

Date of Test:	9-May-96		
Location of Test-City-State:		Tractor Test Lab, Lincoln, NE, USA	
Tapping point used for test:		Remote hydraulic outlets	
I. Sustained pressure with pump stalled:			
	18.5 MPa		
	2680 psig		
II. Pump delivery rate at minumum pressure and rated engine speed:			
	109.4 l/min		
	28.9 gpm		
III. Flow rate, pressure, power:			
90% of relief valve setting			
	59.8 l/min	16.6 MPa	16.6 kW
	15.8 gpm	*2410 psig*	*22.2 hp*
Maximum hydraulic power:			
	101.1 l/min	15.4 MPa	26.0 kW
	26.7 gpm	*2240 psig*	*34.9 hp*
IV. Hydraulic fluid temperature at flow meter:			
	62.0 °C		
	144 °F		
This hydraulic system does not use an accumulator. Opening and closing pressures of the unloading valve could not be measured.			



2.2 POWER LIFT TEST. Cat III, with Quick Attaching Coupler
Upper link in bottom hole on tractor
Date of test: 13 May 1996

		Hitch points	Frame
Lower hitch points above ground - down position:	[mm/in]	231/9.1	211/8.3
Vertical movement: without load:	[mm/in]	718/28.3	813/32.0
with load:	[mm/in]	698/27.5	785/30.9
Maximum corrected force through full range:	[kN/lb]	64.8/14558	54.6/12267
Corresponding pressure:	[kPa/psi]	16600/2408	
Moment about rear axle:	[kN.m/lb.ft]	91.8/67692	110.6/81576
Maximum mast tilt angle:	[deg]	--	5.3

Lifting height relative to horizontal position of lower links.

	[mm]	-354	-334	-288	-189	-88
	[in]	-14.0	-13.2	-11.4	-7.5	-3.5
Corrected lift forces						
Hitch point.	[kN]	--	64.8	65.1	68.5	70.8
	[lb]	--	14558	14639	15390	15917
at frame	[kN]	68.1	67.5	--	66.7	66.0
	[lb]	15309	15165	--	15003	14832

Lifting height relative to horizontal position of lower links.

	[mm]	11	110	212	311	364	431
	[in]	0.5	4.4	8.4	12.3	14.4	17.0
Corrected lift forces							
Hitch point	[kN]	71.1	72.2	71.6	72.3	72.6	--
	[lb]	15989	16232	16106	16250	16313	--
at frame	[kN]	64.6	62.2	59.5	--	56.4	54.6
	[lb]	14517	14517	13365	--	12681	12267

OECD Drawbar Data (SI)

Date of tests:	8-10, May 96	Fuel density:	0.841 kg/l
Type of track:	Concrete	Test number:	1712

Gear	Power	Pull	Speed	Engine speed	Slip	SFC	SFE	Temperature, deg C					Rel hum-	Baro. Pres
	kW	kN	km/h	rev/min		kg/kW.h	kW.h/l	Fuel	Coolant	Oil	Dry	Wet	idity	kPa
I. Maximum Power (unballasted, 4wd at 1950 rev/min)						Tire pressure:		110 kPa, rear		110 kPa, front		Drawbar height:		470 mm
5	104.14	77.17	4.86	2277	15%	0.342	2.46	57	87	112	22	19	82%	97.43
6	120.39	79.07	5.48	2240	15%	0.332	2.53	57	86	112	9	8	87%	98.27
7	135.02	71.73	6.78	2211	8%	0.300	2.80	58	89	113	22	19	82%	97.43
8	144.72	71.43	7.29	2068	8%	0.287	2.94	58	91	115	21	19	86%	97.43
9	152.35	68.26	8.03	1951	7%	0.276	3.05	57	93	116	21	19	86%	97.43
10	154.90	59.06	9.44	1954	5%	0.271	3.10	57	93	116	21	18	77%	97.46
11	154.72	50.96	10.93	1951	4%	0.272	3.09	57	93	116	21	18	77%	97.43
12	155.53	44.08	12.70	1961	3%	0.270	3.12	56	93	116	21	18	77%	97.46
13	155.06	38.37	14.55	1953	3%	0.272	3.09	56	89	113	21	18	77%	97.46
II. Part loads (unballasted, 4wd)														
II.1 in selected gear at maximum power at rated engine speed														
* 10	140.43	46.89	10.78	2196	3%	0.288	2.92	57	89	112	22	18	73%	97.46
II.1.1 75% of pull at maximum power at rated engine speed														
* 10	110.67	35.03	11.37	2294	2%	0.306	2.75	56	88	113	21	18	77%	97.43
II.1.2 50% of pull at maximum power at rated engine speed														
* 10	75.84	23.37	11.68	2335	2%	0.346	2.43	55	86	111	22	18	73%	97.43
II.1.3 higher gear at reduced engine speed, same pull and travel speed as II.1.1														
12	110.43	35.02	11.35	1738	2%	0.266	3.16	53	86	111	21	18	77%	97.43
II.1.4 higher gear at reduced engine speed, same pull and travel speed as II.1.2														
12	75.69	23.31	11.69	1777	2%	0.287	2.93	52	85	109	22	19	74%	97.39
II.2 in selected gear nearest to 7.5 km/h at rated engine speed														
8	139.74	63.08	7.98	2198	5%	0.289	2.91	56	88	111	22	18	73%	97.46
II.2.1 75% of pull at maximum power at rated engine speed														
8	111.32	47.02	8.52	2296	3%	0.303	2.78	54	87	109	21	18	77%	97.46
II.2.2 50% of pull at maximum power at rated engine speed														
8	76.63	31.38	8.79	2337	2%	0.341	2.46	55	86	111	21	18	77%	97.43
II.2.3 higher gear at reduced engine speed, same pull and travel speed as II.2.1														
10	111.54	47.04	8.54	1739	3%	0.260	3.24	53	86	111	21	18	77%	97.46
II.2.4 higher gear at reduced engine speed, same pull and travel speed as II.2.2														
10	76.64	31.37	8.80	1769	2%	0.284	2.97	52	85	109	21	18	77%	97.43

* Note: The safe travel speed is set at 15.0 km/h. Part loading test in 12th gear exceeds this limit

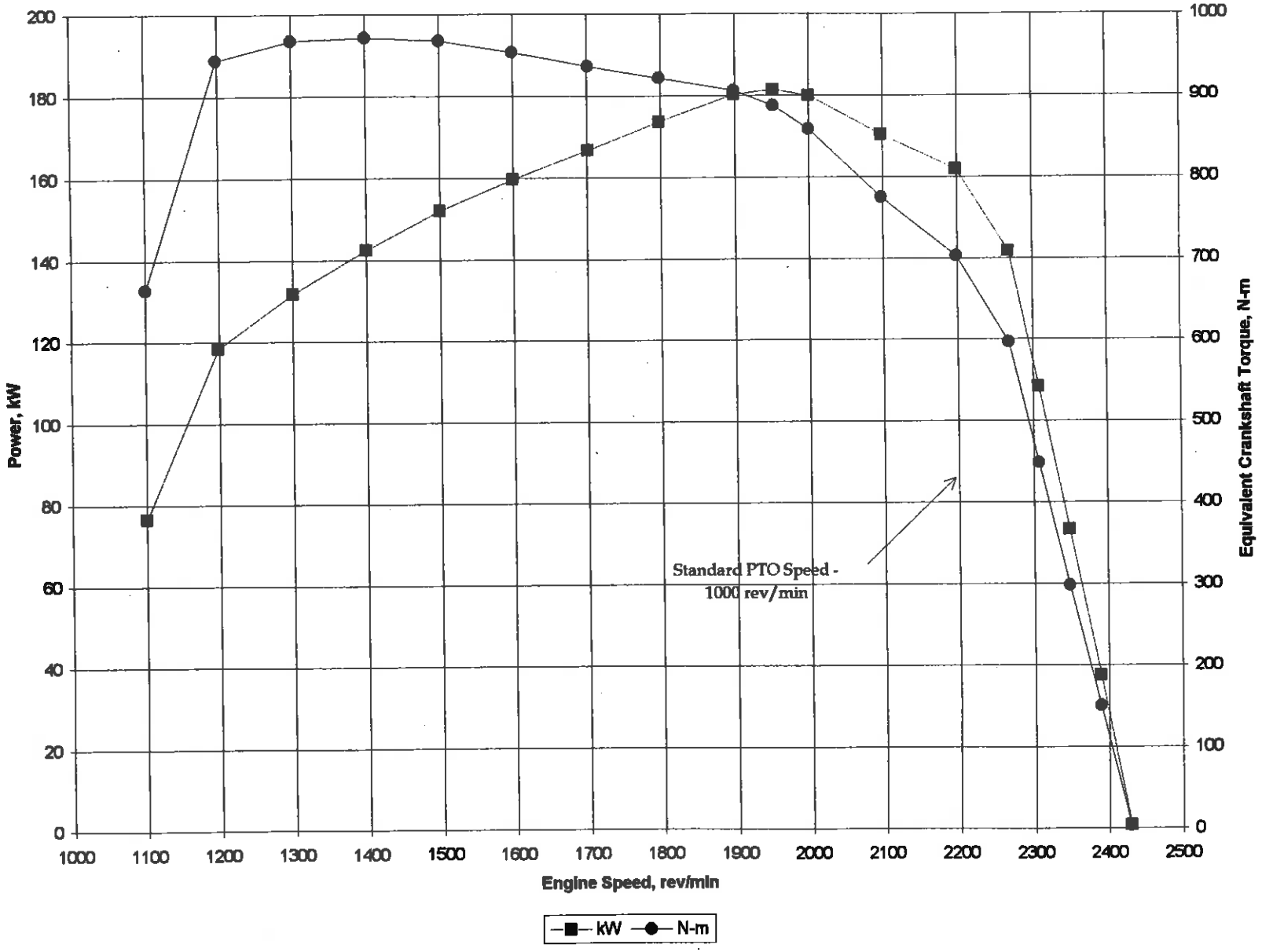
OECD Drawbar Data (US)

Date of tests:	8-10, May 96	Fuel density:	7.021 lb/gal
Type of track:	Concrete	Test number:	1712

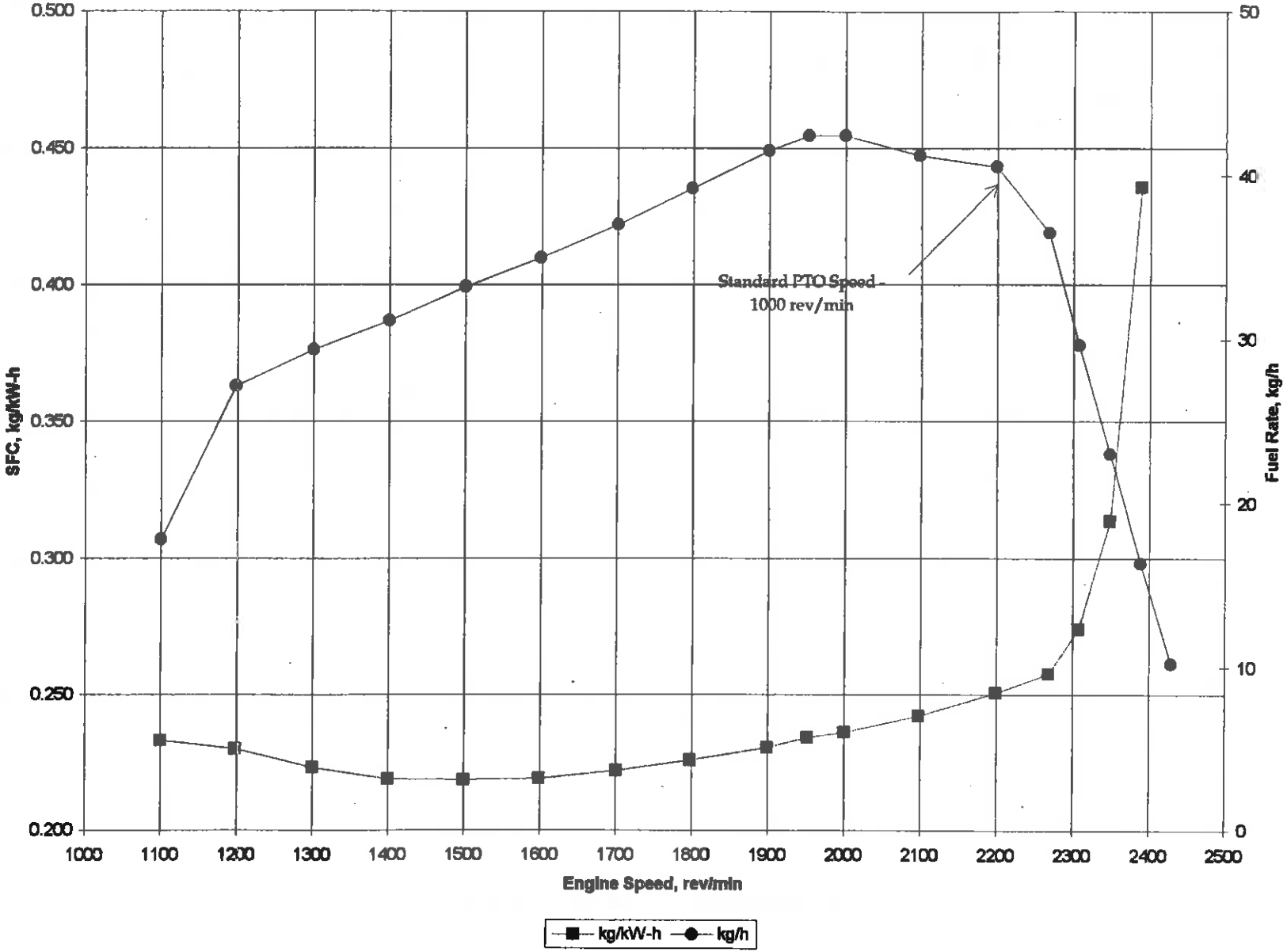
Gear	Power	Pull	Speed	Engine speed	Slip	SFC	SFE	Temperature, deg F					Rel hum-	Baro. Pres
	hp	lb	mph	rev/min		lb/hp.h	hp.h/gal	Fuel	Coolant	Oil	Dry	Wet	idity	in Hg
I. Maximum Power (unballasted, 4wd at 1950 rev/min)						Tire pressure:		16 psig, rear		16 psig, front		Drawbar height:		18.5 in
5	139.65	17349	3.02	2277	15%	0.563	12.48	135	189	233	71	67	82%	28.77
6	161.45	17776	3.41	2240	15%	0.546	12.86	135	187	234	48	46	87%	29.02
7	181.06	16125	4.21	2211	8%	0.494	14.22	137	192	236	71	67	82%	28.77
8	194.07	16059	4.53	2068	8%	0.471	14.91	136	197	239	70	67	86%	28.77
9	204.31	15347	4.99	1951	7%	0.454	15.46	134	199	241	70	67	86%	28.77
10	207.73	13278	5.87	1954	5%	0.446	15.75	135	199	241	70	65	77%	28.78
11	207.48	11456	6.79	1951	4%	0.448	15.68	135	200	242	70	65	77%	28.77
12	208.57	9909	7.89	1961	3%	0.444	15.83	133	199	242	69	64	77%	28.78
13	207.94	8625	9.04	1953	3%	0.448	15.68	132	193	235	70	65	77%	28.78
II. Part loads (unballasted, 4wd)														
II.1 in selected gear at maximum power at rated engine speed														
* 10	188.32	10541	6.70	2196	3%	0.473	14.83	134	192	234	71	65	73%	28.78
II.1.1 75% of pull at maximum power at rated engine speed														
* 10	148.41	7874	7.07	2294	2%	0.503	13.96	132	191	235	69	64	77%	28.77
II.1.2 50% of pull at maximum power at rated engine speed														
* 10	101.70	5254	7.26	2335	2%	0.569	12.34	130	187	232	71	65	73%	28.77
II.1.3higher gear at reduced engine speed, same pull and travel speed as II.1.1														
12	148.09	7873	7.05	1738	2%	0.438	16.05	128	187	231	70	65	77%	28.77
II.1.4 higher gear at reduced engine speed, same pull and travel speed as II.1.2														
12	101.50	5241	7.26	1777	2%	0.472	14.87	126	185	228	72	66	74%	28.76
II.2 in selected gear nearest to 4.6 mph at rated engine speed														
8	187.40	14180	4.96	2198	5%	0.475	14.79	133	191	232	71	65	73%	28.78
II.2.1 75% of pull at maximum power at rated engine speed														
8	149.28	10570	5.30	2296	3%	0.498	14.09	130	189	228	69	64	77%	28.78
II.2.2 50% of pull at maximum power at rated engine speed														
8	102.76	7055	5.46	2337	2%	0.561	12.51	130	187	231	69	64	77%	28.77
II.2.3 higher gear at reduced engine speed, same pull and travel speed as II.2.1														
10	149.58	10574	5.30	1739	3%	0.427	16.45	127	187	232	69	64	77%	28.78
II.2.4 higher gear at reduced engine speed, same pull and travel speed as II.2.2														
10	102.77	7052	5.47	1769	2%	0.466	15.07	125	185	228	69	64	77%	28.77

* Note: The safe travel speed is set at 9.3 mph. Part loading tests in 12th gear exceeds this limit.

Power and Equivalent Crankshaft Torque

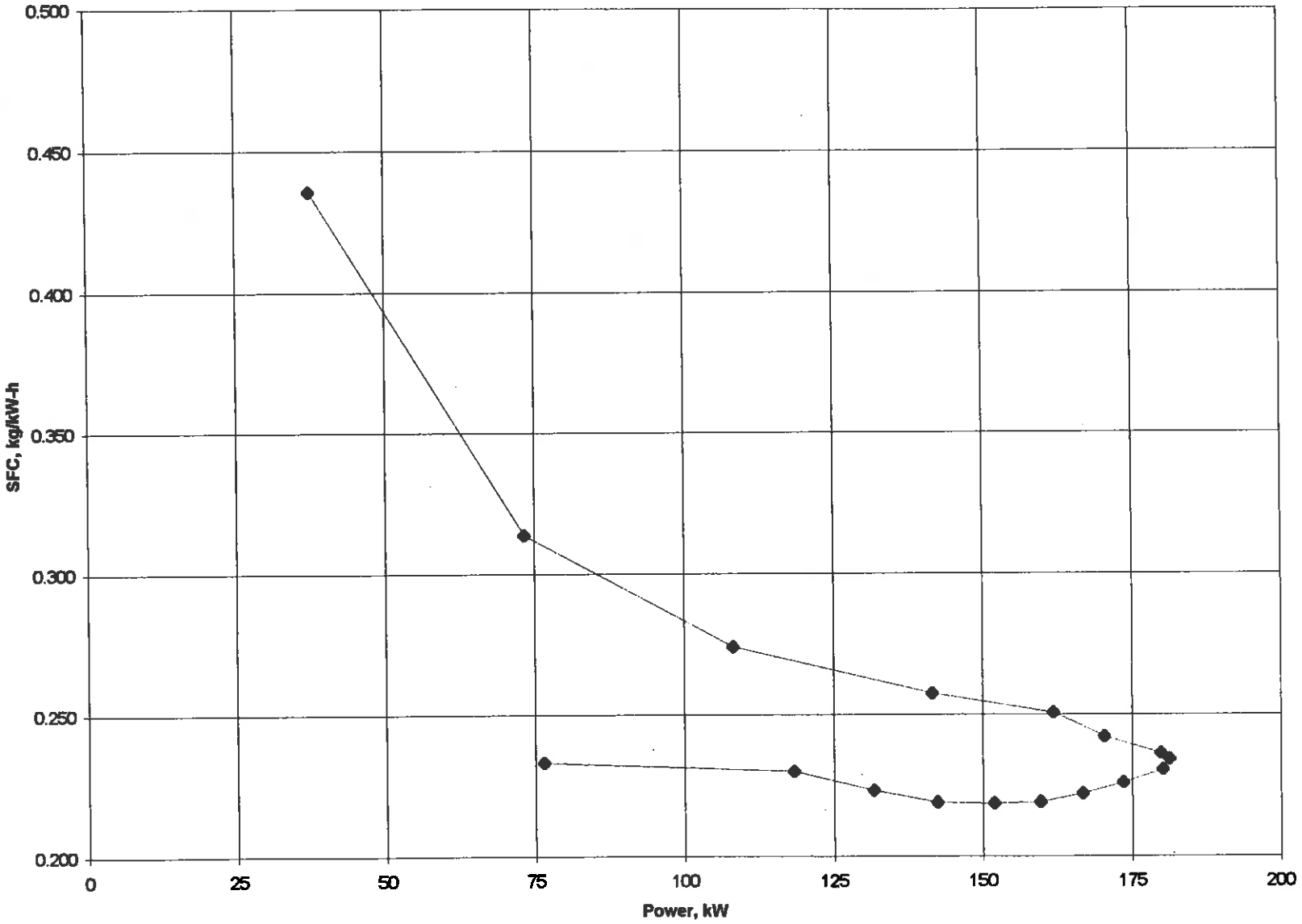


Specific Fuel Consumption and Fuel Rate



Case IH 7250 Magnum

Power and Specific Fuel Consumption



THREE POINT LINKAGE. (Upper link in top hole on tractor)

Table 1.2 - *LINKAGE GEOMETRY DIMENSIONS.

			Dimension or range [mm]	Settings used on test [mm]
Lift category			III	III
Rear Tire - Radius Index	(r)		905	same
Front Tire - Radius Index	(r')		695	same
Length of lift arms	(A)		381	same
Length of lower links	(B)		861	same
Distance of lift				
arm pivot from: horizontal	(a)		364	same
rear wheel axis: vertical	(b)		422	same
Horizontal distance between the				
2 lower link points	(u)		604	same
Horizontal distance between the				
2 lift arm end points	(v)		737	same
Length of upper link	(S)		600	657
		to	831	
Distance of upper				
link pivot from horizontal	(c)		627	same
rear wheel axis: vertical	(d)		169	250
		and	250	
Distance of lower				
link pivot from: horizontal	(e)		445	same
rear wheel axis: vertical	(f)		332	same
Distance of lower link pivot				
points to lift rod pivot pts				
on lower links.	(D)		579	same
Length of lift rods	(L)		660	829
		to	866	
Height of lower hitch points				
relative to rear wheel axis				
In low position	(h)		378	671
		to	699	
In high position	(H)		3	43
		to	269	
Height above ground of lower				
hitch points when locked in				
transport position.		from	858	948
		to	1174	

*Assuming (r) with a dynamic tire index of 905 mm - ISO 4251/1-1992

OPTIONAL TEST - Alternate setting

2.2 POWER LIFT TEST. Cat III, with Quick Attaching Coupler
Upper link in top hole on tractor, for dimensions see p. 21
Date of test: 13 May 1996

		Hitch points	Frame
Lower hitch points above ground - down position:	[mm/in]	246/9.7	272/10.7
Vertical movement: without load:	[mm/in]	714/28.1	673/26.5
Vertical movement: with load:	[mm/in]	673/26.5	650/25.6
Maximum corrected force through full range:	[kN/lb]	67.9/15269	64.1/14400
Corresponding pressure:	[kPa/psi]	16600/2408	
Moment about rear axle:	[kN.m/lb.ft]	96.3/70999	129.8/95760
Maximum mast tilt angle:	[deg]	--	0.0

Lifting height relative to horizontal position of lower links.

[mm]	-319	-293	-194	-93	6
[in]	-12.6	-11.6	-7.7	-3.7	0.3

Corrected lift forces

Hitch point. [kN]	67.9	68.1	70.8	72.5	73.4
Hitch point. [lb]	15269	15314	15908	16290	16493
at frame [kN]	--	91.6	81.1	77.5	74.9
at frame [lb]	--	20592	18234	17433	16839

Lifting height relative to horizontal position of lower links.

[mm]	105	207	306	354	357
[in]	4.2	8.2	12.1	14.0	14.1

Corrected lift forces

Hitch point [kN]	74.6	74.3	75.2	75.7	--
Hitch point [lb]	16772	16700	16898	17015	--
at frame [kN]	72.6	70.7	67.8	66.2	64.1
at frame [lb]	16317	15894	15237	14877	14400

MEASUREMENT OF EXTERNAL NOISE LEVEL

Date of test	10 May, 1996
Location of test	Nebraska power Lab, Lincoln, NE, USA
Sound Level meter	Bruel and Kjaer 2209
Type of track	Concrete oval
Gear Number	18th
Speed prior to acceleration	27.7 km/h
Noise Level	88.0 dB(A)

Repairs: None

Remarks: **The gears which were used for the reduced drawbar load tests were selected because the gears immediately above the full drawbar loads did not provide significant fuel consumption savings as required in sections 2.2.3.3.4 and 2.2.3.3.5**