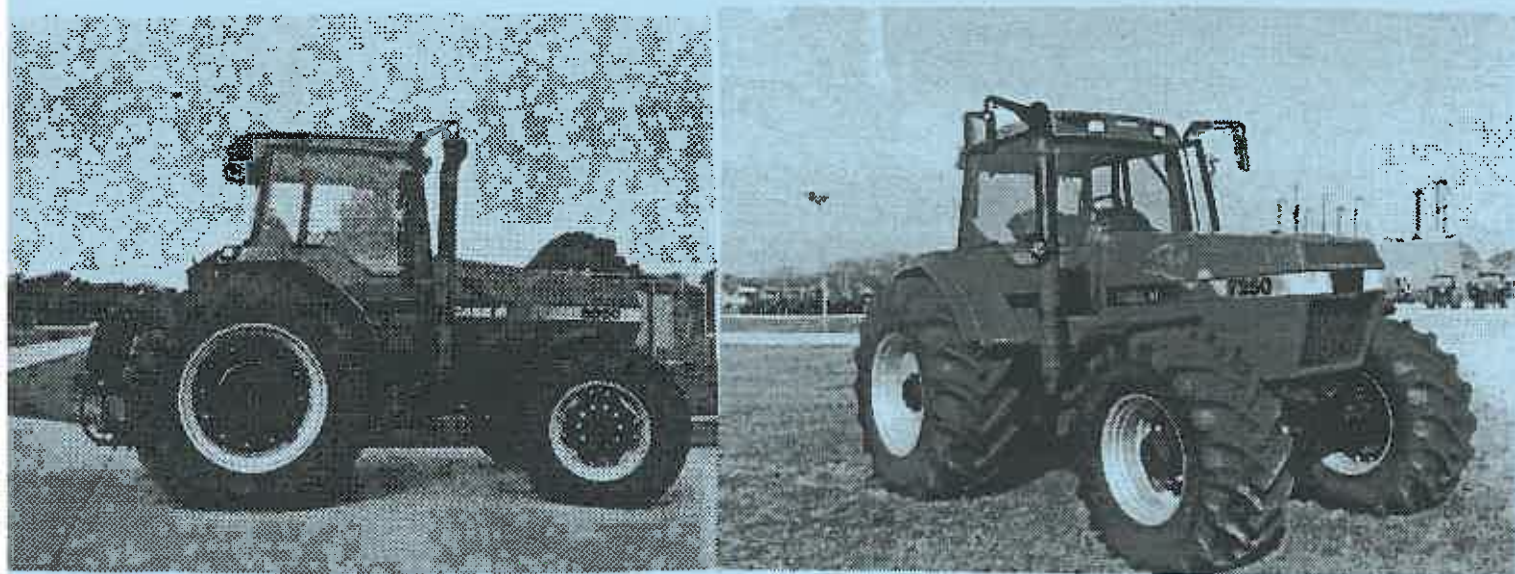


OECD APPROVAL No 2/1761
Code 2
Date of Approval: 20 May 1998

NEBRASKA TRACTOR TEST LABORATORY
DEPARTMENT OF BIOLOGICAL SYSTEMS ENGINEERING
INSTITUTE OF AGRICULTURE AND NATURAL RESOURCES
UNIVERSITY OF NEBRASKA - EAST CAMPUS
LINCOLN, NEBRASKA 68583-0832, USA

REPORT ON TEST IN ACCORDANCE WITH OECD CODE 2
FOR THE OFFICIAL TESTING OF AGRICULTURAL TRACTORS



CASE IH 8950 - MFWD (4WD)
CASE IH 7250 PRO - MFWD (4WD)
STEYR 9270 - MFWD (4WD)
30 km/h version - 18-Speed Transmission

MANUFACTURED BY	Case Corporation, 700 State Street Racine,
	Wisconsin 53404 USA
NEBRASKA TEST NO.	1737
TEST DATE	September 18 - October 1, 1997

the 'information' and 'communication' fields. The 'information' field is defined as:

...the study of the nature, creation, organisation, storage, retrieval, dissemination and use of information, and the social, cultural, economic and political aspects of information science. (p. 1)

The 'communication' field is defined as:

...the study of the nature, creation, organisation, storage, retrieval, dissemination and use of communication, and the social, cultural, economic and political aspects of communication science. (p. 1)

The 'information science' field is defined as:

...the study of the nature, creation, organisation, storage, retrieval, dissemination and use of information science, and the social, cultural, economic and political aspects of information science. (p. 1)

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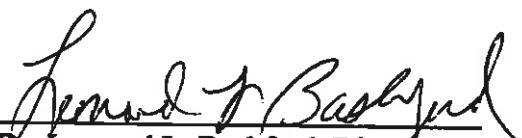
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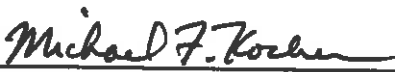
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This test report provides the results of the tests conducted in accordance with the OECD Standard Test Code for the Official Testing of Agricultural Tractor Performance - C(87)53 Final, Code 2.

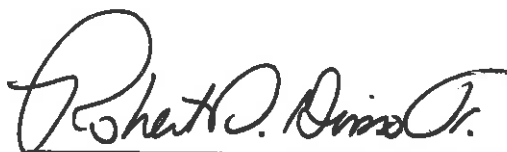
This report has been approved by the OECD Coordinating Centre in Paris (CEMAGREF) on 20 May 1998 for the **Case IH 8950 MFWD (4WD)**, **Case IH 7250 PRO MFWD (4WD)**, and **Steyr 9270 MFWD (4WD)** models, 30 km/h 18-speed transmission with OECD number 2/1761.

No reproduction of this report or any part of it can be made without prior approval by the Nebraska Tractor Test Laboratory, Lincoln, Nebraska USA.


Dr. Leonard L. Bashford, Director
Nebraska Tractor Test Laboratory and
Chair, Nebraska Tractor Test Board


Dr. Michael F. Kocher, Member
Nebraska Tractor Test Board


David L. Morgan, Assistant Director
Nebraska Tractor Test Laboratory


Dr. Robert D. Grisso, Member
Nebraska Tractor Test Board


Brent T. Sampson
Test Engineer

Date:

JUN 26 1998

LINCOLN, NEBRASKA 68583-0832, USA

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GENERAL SPECIFICATIONS

Manufacturers name/address	Case Corporation, 700 State Street, Racine, Wisconsin 53404 USA
Location of tractor assembly	Case Corporation, 24th and Mead Streets, Racine, Wisconsin 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	114 hours
Location of Test	Nebraska Tractor Test Lab, Lincoln, Nebraska USA

Tractors:

Make:	Case International	Case International	Steyr
Model:	8950 - MFWD	7250 Pro - MFWD	9270 - MFWD
Type:	4 WD 30 km/h version with 18 speed transmission	4 WD 30 km/h version with 18 speed transmission	4 WD 30 km/h version with 18 speed transmission

SPECIFICATIONS OF TRACTOR

Make/Model/Type	Case IH 8950-MFWD/4WD
Number of driving wheels	Unit construction; 30 km/h version; 18-speed 2 or 4
Serial number	*JJA0075024*
1st Serial number	*JJA0072000*

ENGINE

Make	Consolidated Diesel Co
Model	6TA-830
Type	Diesel, direct injection, turbocharged, intercooled
Serial Number	*45472957*

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

172 +/- 20 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

76124 04812

Production setting of pump

Flow Rate (Rated Engine Speed
and full load)

44.60 ± 2.23 kg/h

Fuel density

0.845 kg/l

Make/Model/Type of injectors

Robert Bosch/J926787/17 mm

Injection timing

16° ± 2° BTDC; Lock timed at TDC ± 2°

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

Nelson/71198A/Exhaust aspirated

Air intake location

Under hood; ahead of radiator

Main Cleaner

Make/Model/Type

Donaldson/EGB11-0077/or Nelson/71198A;
both dry, dual element pleated paper

Location of main cleaner

Under hood

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	8
Fan diameter	625 mm
Coolant system capacity	31.0 l.
Type of temperature control	Two thermostats
Superpressure	69 kPa

Starting System

Make/Model/Type	Nippondenso/R4.0 or FII4.0/Solenoid engaged
Power Rating	4.0 kW
Cold starting aid	Ether spray in intake manifold
Safety device	Electrical lockout on transmission

Electrical System

Voltage	12 Volt
Alternator	
Make/Model/Type	Bosch/N1/Alternator; belt drive
Power rating	110 Amp./14.2 V.
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 IH/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
Arrangement

Number of gears
Available options
Oil cooler

Case IH/18 speed/full powershift; mechanical
Countershaft type with one 2-speed and two 3-speed
constant mesh powershift modules
18 forward, 4 reverse controlled by single lever
Creeper gear with 6 forward and 2 reverse speeds
Air to oil in front of radiator

Rear Axle and Final Drives

Make/model/Type

Differential Lock
Type
Method of engagement
Method of disengagement

Case International; Crown wheel & pinion;
differential and planetary reduction

Hydraulic
Electrical; switch on console
Electrical; switch on console or activation of brakes

Front Axle and Final Drives

Make/Model/Type

Differential lock
Type
Method of engagement
Method of disengagement

Dana/070BP196/Crown wheel & pinion,
differential & planetary reduction

Limited slip
Self locking
Self unlocking

TOTAL TRANSMISSION RATIOS AND TRAVEL SPEEDS
(18 speed transmission - tested version)

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	3.09
2nd	212.073	3.54
3rd	183.909	4.08
4th	160.331	4.68
5th	139.776	5.37
6th	121.856	6.16
7th	104.463	7.19
8th	91.070	8.24
9th	78.976	9.50
10th	68.851	10.90
11th	60.024	12.50
12th	52.328	14.34
13th	45.741	16.41
14th	39.877	18.82
15th	34.581	21.71
16th	30.148	24.90
17th	26.283	28.56
18th	22.913	32.76
Reverse		
R1	168.997	4.44
R2	147.331	5.09
R3	72.572	10.34
R4	63.268	11.86

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 1.3228

TOTAL TRANSMISSION RATIOS AND TRAVEL SPEEDS
(18 speed transmission plus optional 6 forward/2 reverse Creeper gears)

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	0.90
2nd Creeper	631.893	1.19
3rd Creeper	480.256	1.56
4th Creeper	358.923	2.09
5th Creeper	271.354	2.77
6th Standard	243.260	3.09
7th Standard	212.073	3.54
8th Creeper	206.234	3.64
9th Standard	183.909	4.08
10th "	160.331	4.68
11th "	139.776	5.37
12th "	121.856	6.16
13th "	104.463	7.19
14th "	91.070	8.24
15th "	76.976	9.50
16th "	68.851	10.90
17th "	60.024	12.50
18th "	52.328	14.34
19th "	45.741	16.41
20th "	39.877	18.82
21th "	34.581	21.71
22th "	30.148	24.90
23th "	26.283	28.56
24th "	22.913	32.76
Reverse		
R1 Creeper	580.657	1.29
R2 Creeper	249.351	3.01
R3 Standard	168.997	4.44
R4 "	147.331	5.09
R5 "	72.572	10.34
R6 "	63.268	11.86

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 1.3228

POWER-TAKE-OFF

Main Power-Take-Off

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

Standard Power-Take-Off Proportional to Engine Speed-1000 rev/min

Location	Rear of tractor, vertical center plane.
Diameter of shaft (Standard)	45 mm (ISO 500/1991)
Number of splines	20; (ISO 500/1991)
Height above ground	815 mm
Distance from median plane of tractor	0 mm
Distance behind rear axle	796 mm
PTO Speed at rated engine speed	1003 rev/min
Engine speed at Std. PTO speed	2193 rev/min
Ratio of Engine rpm to PTO rpm	2.193:1
Power Restriction	None
Direction of rotation (viewed facing driving end)	Clockwise

POWER LIFT

Make/Type	Case IH/3-point
Type of hydraulic system	Closed center, load sensing
Number/Type of cylinders	One internal, 120.7 mm x 171.5 mm, two external, 57.2 mm x 205 mm; all single acting
Type of linkage lock for transport	Hydraulic, with locking notch on hand lever on console
Relief valve setting (High pressure standby)	19.13 $\pm$ 0.17 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 l

THREE POINT LINKAGE.

- Category 3 in conformity with ISO 730/1-1990
- Category adaptor - Quick Attaching Coupler

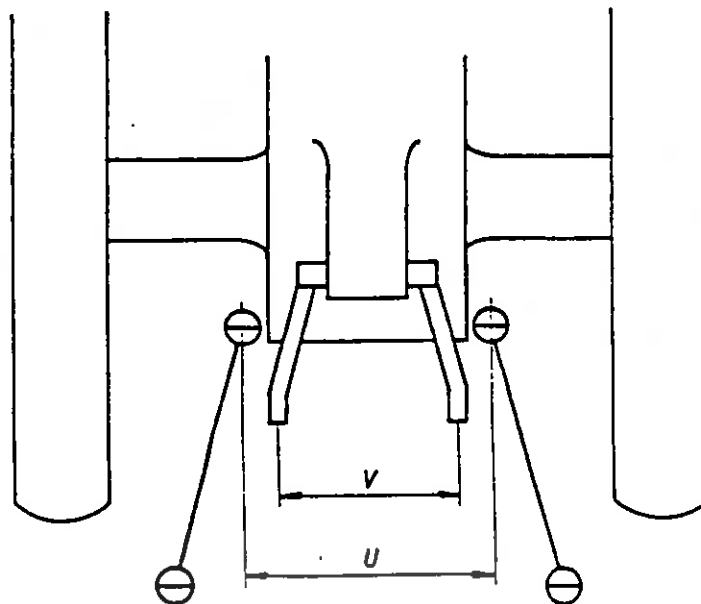
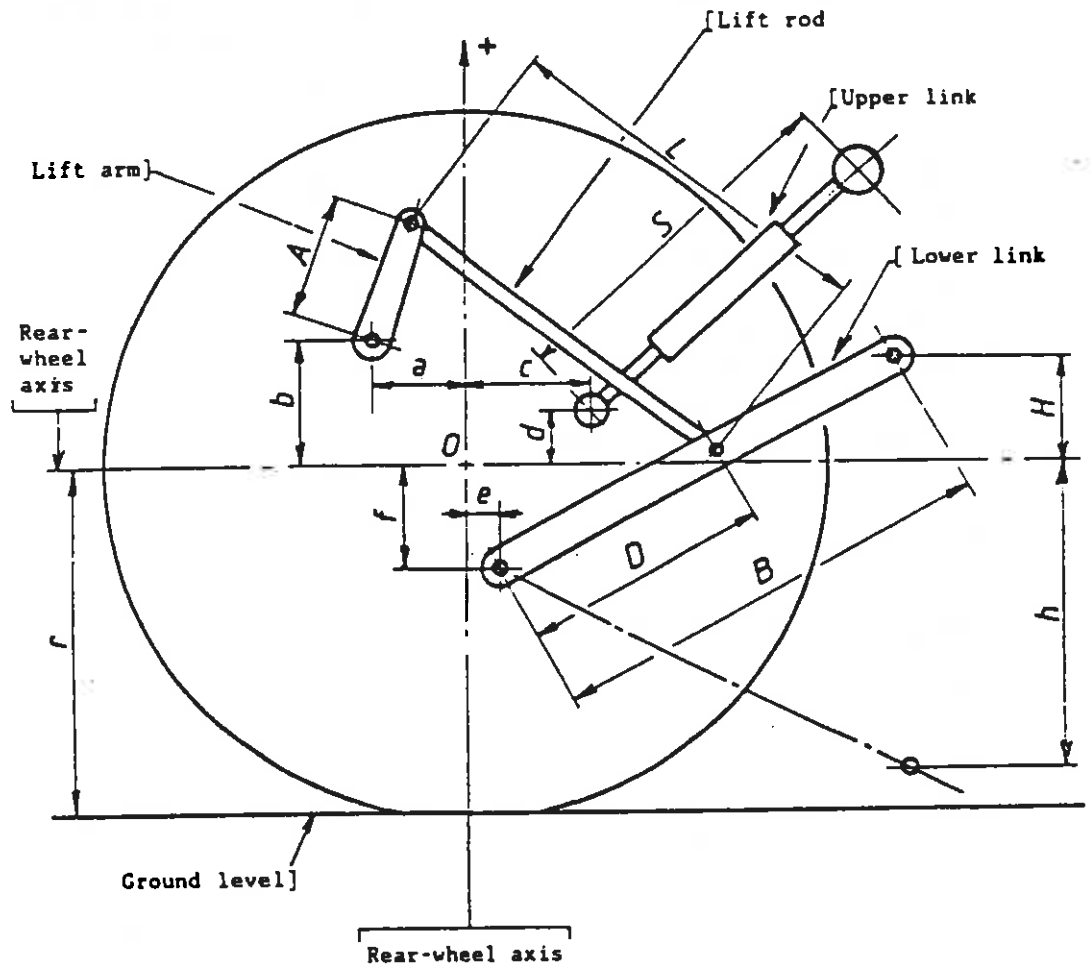


TABLE 1.1 - LINKAGE GEOMETRY DIMENSIONS

		Dimension or range	Settings used on test
		[mm]	[mm]
Lift category		III	same
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	169
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 points			
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 406	
		to 739	664
In high position	(H)	from 7	
		to 338	54
Height above ground of lower			
hitch points when locked in			
transport position.		from 947	
		to 1278	959

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

SWINGING DRAWBAR

Type	Swinging
Height above ground - Maximum	594 mm (strap on top)
Minimum	479 mm (strap on bottom)
Adjustments	Laterally adjustable with 3 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 of 1000 rpm PTO	
Vertically	222 mm (strap on top) 336 mm (strap on bottom)
Horizontally	
Position 1	406 mm
Position 2	508 mm
Position 3	610 mm
Lateral adjustment (center of clevis)	
Right side & Left side	
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	2235	Reversing wheel rims and offset lug rims
Rear	1626	3353	Adjustable clamping edges on bar axle and offset lug rims

PROTECTIVE STRUCTURE

Make/Model/Type Case IH 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
Tilttable No

OECD Approval Number CASE INTERNATIONAL 7250 MFWD 4WD CSS 096/115
30 km/h version
Date of Approval 26 May 1994

OECD Approval Number STEYR 9270 MFWD 4WD CSS 096/155
30 km/h version
Date of Approval 18 June 1997

Modification certificate:

Certificate for minor modification numbered:

CSS 096/ to 8/MOD 1/USA dated 13th June 1990.

established by and under the responsibility of the National Authority:

University of Nebraska

Nebraska Tractor Test Laboratory

Lincoln, Nebraska 68583-0832 - United States of America

Certificate for minor modification numbered:
CSS 096/ to 8/MOD 2/USA dated 18th October 1990.
 established by and under the responsibility of the National Authority:
University of Nebraska
Nebraska Tractor test Laboratory
Lincoln, Nebraska 68583-0832 - United States of America

DRIVER'S SEAT

Make/Model/Type	Sears/SA12105/Air suspension or Sears/SA11035/Air suspension
Type of suspension	Air ride; fore-aft isolator; adjustable for weight. SA11035 has also a lateral isolator
Type of damping	Air damping
Range of adjustment	
Longitudinal	152.4 mm
Vertical	76.2 mm
Seat belt	No

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	260.5 x 130.8	390
Rearlights	2104	100.0 x 45.2	654
Reflectors-rear	2104	50.0 x 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	3890	3077	3039
<u>(ballasted)</u>				
5550	3048	3890	3077	3039

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

Tractor Mass (with Cab, full fuel tank)

		Without driver	With driver
		[kg]	[kg]
Unballasted	Front	2589	2599
	Rear	5729	5794
	Total	8318	8393
Ballasted	Front	4117	4127
	Rear	7048	7113
	Total	11165	11240

Ballast

	Number of Weights	Mass (total) [kg]	Water [kg]
Front-weights	22	998	—
-bracket	1	164	—
Rear-weights	14	921	—
-duals		764	—

Tire and Track Width Specifications

	<u>Front</u>	<u>Rear</u>
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)	2474 kg/tire	4150 kg/tire
Inflation pressure(tire mfr)	160 kPa	160 kPa
Dynamic Radius Index	695 mm	905 mm
Chosen track width - inner	1930 mm	1800 mm
- outer		3445 mm

OILS AND LUBRICATION**Capacity and Change Interval**

	Capacity	Oil change	Filter change
	liter	hours	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 (each side)	0.9	1000	-----
Final drive-rear	Common with Gear box		

Lubricant Specifications

	<u>Recommended</u>	<u>Used during test</u>
Engine oil		
Type	Case IH N0. 1 SAE 15W-40	same
Viscosity	14.9 cSt at 100°C	
Classification	API CG-4, CF, CF-4	
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 135H EP 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	same
Number of lube points	26	
<u>FUEL</u>		
Type	Premier; Grade 2-D, in conformity with the national standard	
Density (PTO test)	0.845 kg/l at 15°C	
(Drawbar test)	Same as PTO test	

COMPULSORY TESTS**1. MAIN POWER TAKE OFF**

Date: 19-Sep-87		Location: UNIL Tractor Test Lab, Lincoln, NE, USA				
Type of dynamometer: Eddy current, Eaton		Fuel Density 0.845 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						
190.29	1950	888	53.96	45.57	0.239	3.53
255.18			14.25	100.47	0.394	17.90
1.2 Power at Rated Engine Speed - 1 hour						
169.36	2200	1002	51.65	43.62	0.258	3.28
227.12			13.64	96.16	0.423	16.65
1.3 Power at Standard Power Take Off Speed - 1 hour						
169.36	2200	1002	51.65	43.62	0.258	3.28
227.12			13.64	96.16	0.423	16.65
1.4 Part Loads						
1.4.1 Torque at maximum power at rated engine speed						
169.36	2200	1002	51.65	43.62	0.258	3.28
227.12			13.64	96.16	0.423	16.65
1.4.2 85% of torque obtained in 1.4.1						
148.93	2275	1036	47.37	40.01	0.269	3.14
199.72			12.51	88.20	0.442	15.96
1.4.3 75% of torque defined in 1.4.2						
115.24	2345	1068	39.80	33.61	0.292	2.90
154.54			10.51	74.10	0.479	14.70
1.4.4 50% of torque defined in 1.4.2						
78.22	2399	1092	32.06	27.08	0.346	2.44
104.89			8.47	59.70	0.569	12.38
1.4.5 25% of torque defined in 1.4.2						
39.79	2437	1110	23.20	19.60	0.492	1.72
53.36			6.13	43.20	0.810	8.71
1.4.6 unloaded						
0.79	2452	1116	12.73	10.75	13.569	0.06
1.06			3.36	23.70	22.307	0.32
1.5 Part Loads at Standard Power Take Off Speed						
1.5.1 Torque at maximum power						
169.36	2200	1002	51.65	43.62	0.258	3.28
227.12			13.64	96.16	0.423	16.65
1.5.2 85% of torque obtained in 1.5.1						
148.93	2275	1036	47.37	40.01	0.269	3.14
199.72			12.51	88.20	0.442	15.96
1.5.3 75% of torque defined in 1.5.2						
115.24	2345	1068	39.80	33.61	0.292	2.90
154.54			10.51	74.10	0.479	14.70
1.5.4 50% of torque defined in 1.5.2						
78.22	2399	1092	32.06	27.08	0.346	2.44
104.89			8.47	59.70	0.569	12.38
1.5.5 25% of torque defined in 1.5.2						
39.79	2437	1110	23.20	19.60	0.492	1.72
53.36			6.13	43.20	0.810	8.71
1.5.6 unloaded						
0.79	2452	1116	12.73	10.75	13.569	0.06
1.06			3.36	23.70	22.307	0.32
No load maximum engine speed:			2452	rev/min		
Equivalent torque at rated speed:			735	N.m	542	lb-ft
Equivalent torque at maximum power:			932	N.m	687	lb-ft
(engine speed:			1950	rev/min)		
Maximum equivalent crankshaft torque:			1046	N.m	772	lb-ft
(engine speed:			1400	rev/min)		
Mean Dry bulb:			25	deg C	77	deg F
Wet bulb:			19	deg C	66	deg F
Relative Humidity			57	%		
Pressure:			97.6	kPa	28.82	in Hg
Maximum Coolant:			91	deg C	196	deg F
Engine Oil:			113	deg C	235	deg F
Fuel:			55	deg C	131	deg F
Air Intake:			32	deg C	90	deg F
Transmission/hydraulic oil:			54	deg C	130	deg F
Intake manifold pressure at rated speed:			169	kPa	24.6	psig
Intake manifold pressure at maximum power:			176	kPa	25.5	psig

Date of Test: 01-Oct-97

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:

18.13 MPa

2630 psig

II. Pump delivery rate at minimum pressure and rated engine speed:

112.4 l/min

29.7 gpm

III. Flow rate, pressure, power:

90% of relief valve setting

34.8 l/min

9.2 gpm

16.41 MPa

2380 psig

9.5 kW

12.8 hp

Maximum hydraulic power:

101.8 l/min

26.9 gpm

14.27 MPa

2070 psig

24.2 kW

32.5 hp

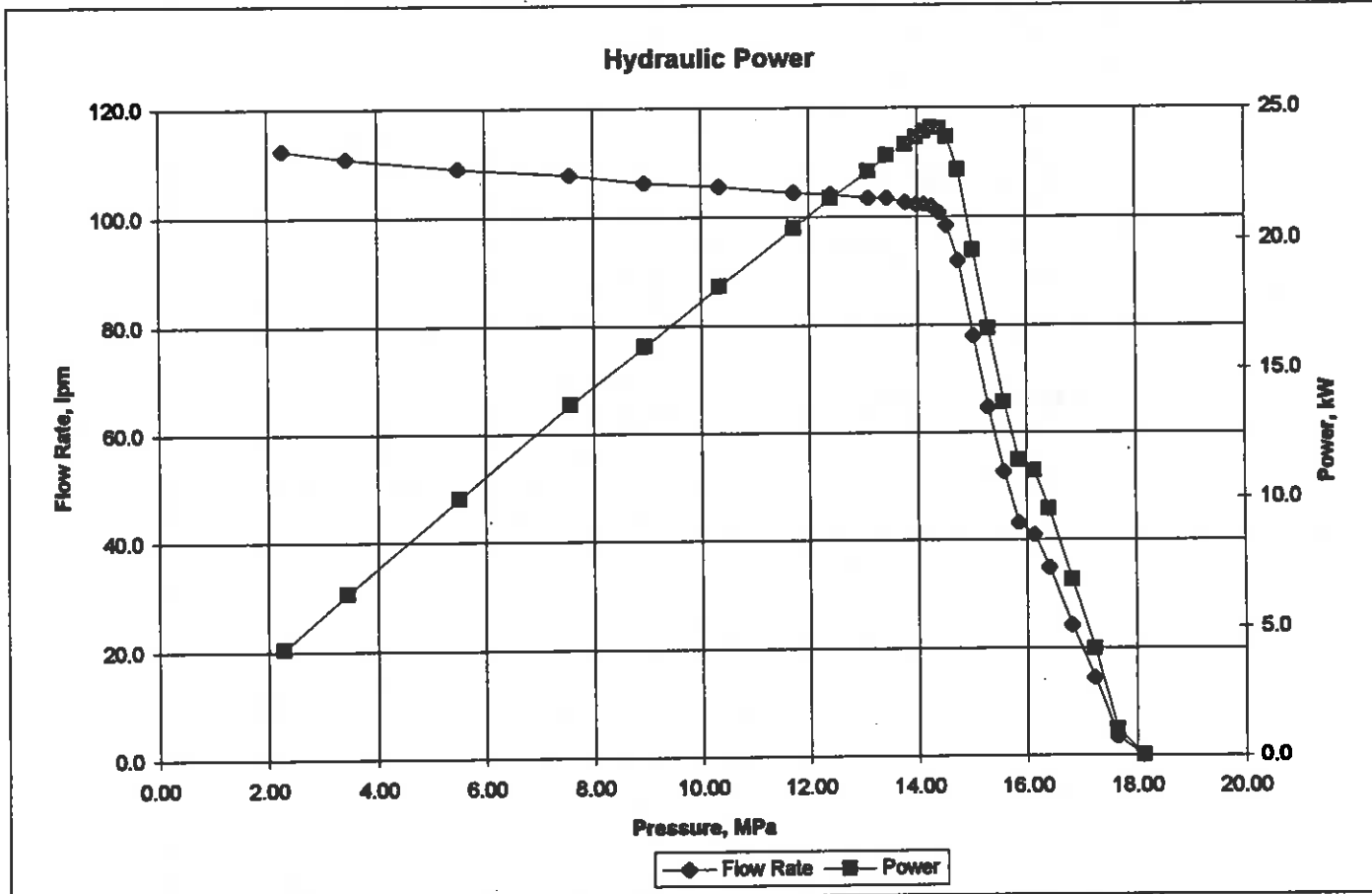
IV. Hydraulic fluid temperature at flow meter:

67.7 °C

154 °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

The data presented here is from OECD test 1628 done on the Case IH 7240 which has the mechanically identical hitch system.

	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 [kN]	--	64.8	65.1	68.5	70.8
point. [lb]	--	14558	14639	15390	15917
at [kN]	68.1	67.5	--	66.7	66.0
frame [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 [kN]	71.1	72.2	71.6	72.3	72.6	--
point [lb]	15989	16232	16106	16250	16313	--
at [kN]	64.6	62.2	59.5	--	56.4	54.6
frame [lb]	14517	13977	13365	--	12681	12267

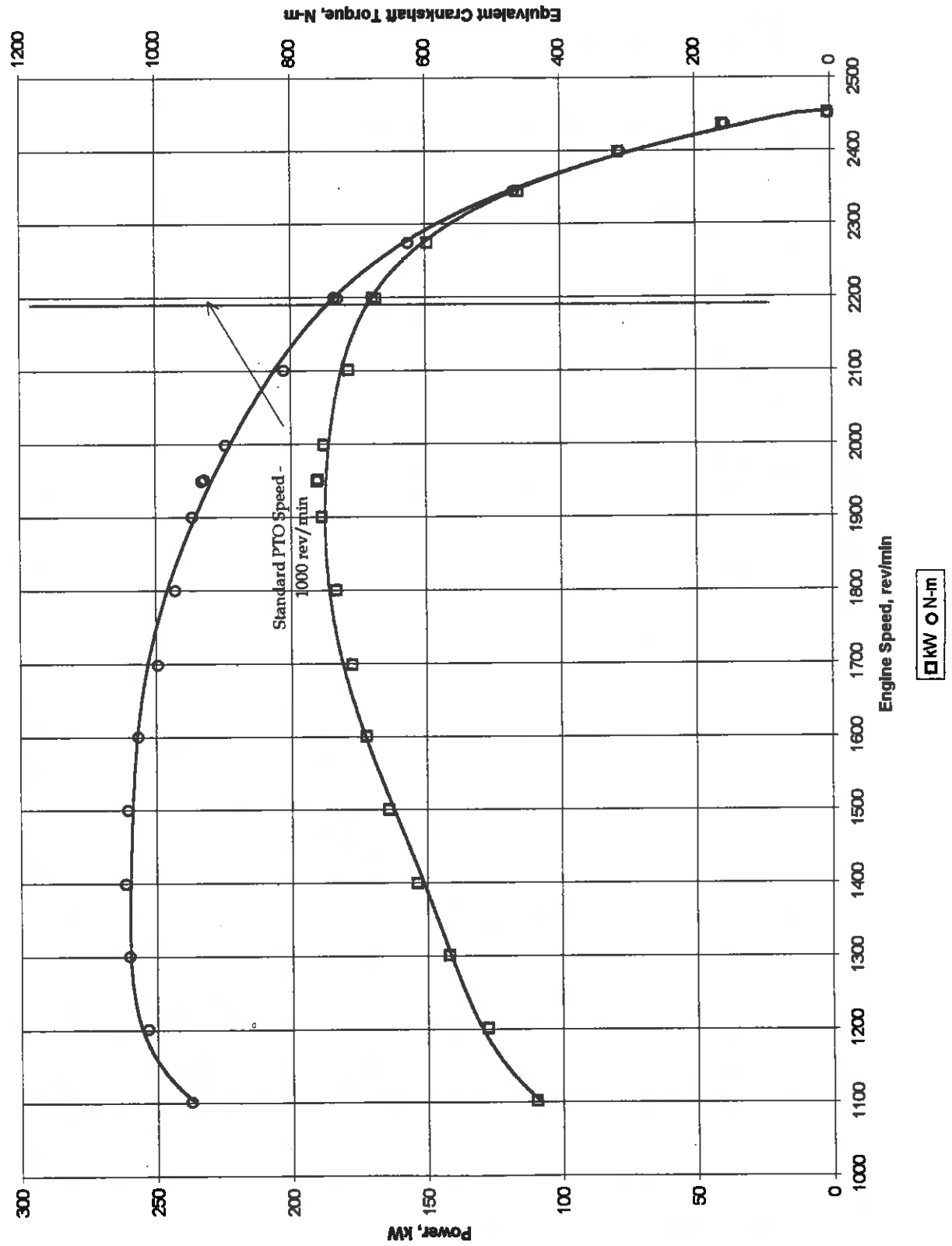
OECD Drawbar Data (SI)

Date of tests: 29-SEPT-97		Fuel density: 0.845 kg/l		Test number: 1737											
Type of track: Concrete		Engine speed		Slip											
Gear	Power	Pull	Speed	Engine speed	Slip	SFC	SFE	Temperature, deg C		Fuel	Coolant	Oil	Dry	Wet	Baro. Pres
	kW	kN	km/h	rev/min		kg/kW.h	kW/h			97 kPa, rear	85 kPa, front				kPa
I. Maximum Power (unballasted, 4wd at 1950 rev/min)															
5	111.14	83.20	4.81	2280	15%	0.354	2.38	51	86	112	14	9	58%	97.22	
6	128.49	83.47	5.54	2243	13%	0.334	2.53	51	86	111	12	9	66%	97.19	
7	146.57	80.25	6.57	2165	9%	0.303	2.79	53	86	112	16	11	55%	97.22	
8	154.71	75.36	7.39	2072	7%	0.289	2.92	53	86	113	21	12	35%	97.32	
9	162.30	72.18	8.09	1950	6%	0.281	3.01	53	88	114	22	13	40%	97.32	
10	167.04	63.57	9.46	1950	4%	0.274	3.08	53	87	114	17	11	48%	97.26	
11	165.72	54.64	10.92	1944	3%	0.275	3.08	52	88	114	19	12	44%	97.29	
12	165.30	46.91	12.69	1957	2%	0.276	3.06	52	89	114	20	12	41%	97.29	
13	163.85	40.61	14.53	1950	2%	0.278	3.03	53	89	114	21	13	42%	97.32	
II. Part loads (unballasted, 4wd)															
II.1 in selected gear at maximum power at rated engine speed.															
7	146.07	76.97	6.83	2203	7%	0.299	2.82	53	86	112	15	10	55%	97.22	
II.1.1 75% of pull at maximum power at rated engine speed															
7	118.38	57.73	7.38	2295	3%	0.313	2.70	54	86	111	26	15	32%	97.32	
II.1.2 50% of pull at maximum power at rated engine speed															
7	81.94	38.51	7.66	2348	2%	0.352	2.40	54	85	111	27	16	29%	97.29	
II.1.3 higher gear at reduced engine speed, same pull and travel speed as II.1.1															
8	118.28	57.71	7.38	2002	3%	0.280	3.01	53	85	111	26	15	30%	97.32	
II.1.4 higher gear at reduced engine speed, same pull and travel speed as II.1.2															
8	81.98	38.47	7.67	2050	2%	0.308	2.74	52	84	109	27	16	29%	97.29	
II.1.5 higher gear at reduced engine speed, same pull and travel speed as II.1.3															
9	118.34	57.72	7.38	1737	3%	0.264	3.20	52	85	110	27	15	28%	97.32	
II.1.6 higher gear at reduced engine speed, same pull and travel speed as II.1.4															
9	82.04	38.28	7.72	1788	2%	0.286	2.96	51	84	109	27	16	29%	97.29	
II.2 in selected gear nearest to 7.5 km/h at rated engine speed.															
10	147.08	48.99	10.81	2198	3%	0.295	2.86	53	87	113	19	12	43%	97.26	
II.2.1 75% of pull at maximum power at rated engine speed															
10	116.14	36.72	11.39	2297	2%	0.321	2.63	54	86	113	22	14	40%	97.29	
II.2.2 50% of pull at maximum power at rated engine speed															
10	79.42	24.45	11.69	2344	1%	0.362	2.34	53	85	110	24	14	36%	97.29	
II.2.3 higher gear at reduced engine speed, same pull and travel speed as II.2.1															
11	116.08	36.64	11.40	2005	2%	0.287	2.95	53	85	111	23	14	38%	97.29	
II.2.4 higher gear at reduced engine speed, same pull and travel speed as II.2.2															
11	79.50	24.52	11.67	2040	1%	0.321	2.63	51	84	109	25	15	34%	97.29	
II.2.5 higher gear at reduced engine speed, same pull and travel speed as II.2.3															
12	116.02	36.66	11.39	1747	2%	0.269	3.14	51	85	111	23	14	35%	97.29	
II.2.6 higher gear at reduced engine speed, same pull and travel speed as II.2.4															
12	79.33	24.45	11.68	1780	1%	0.296	2.86	51	84	109	25	15	34%	97.29	

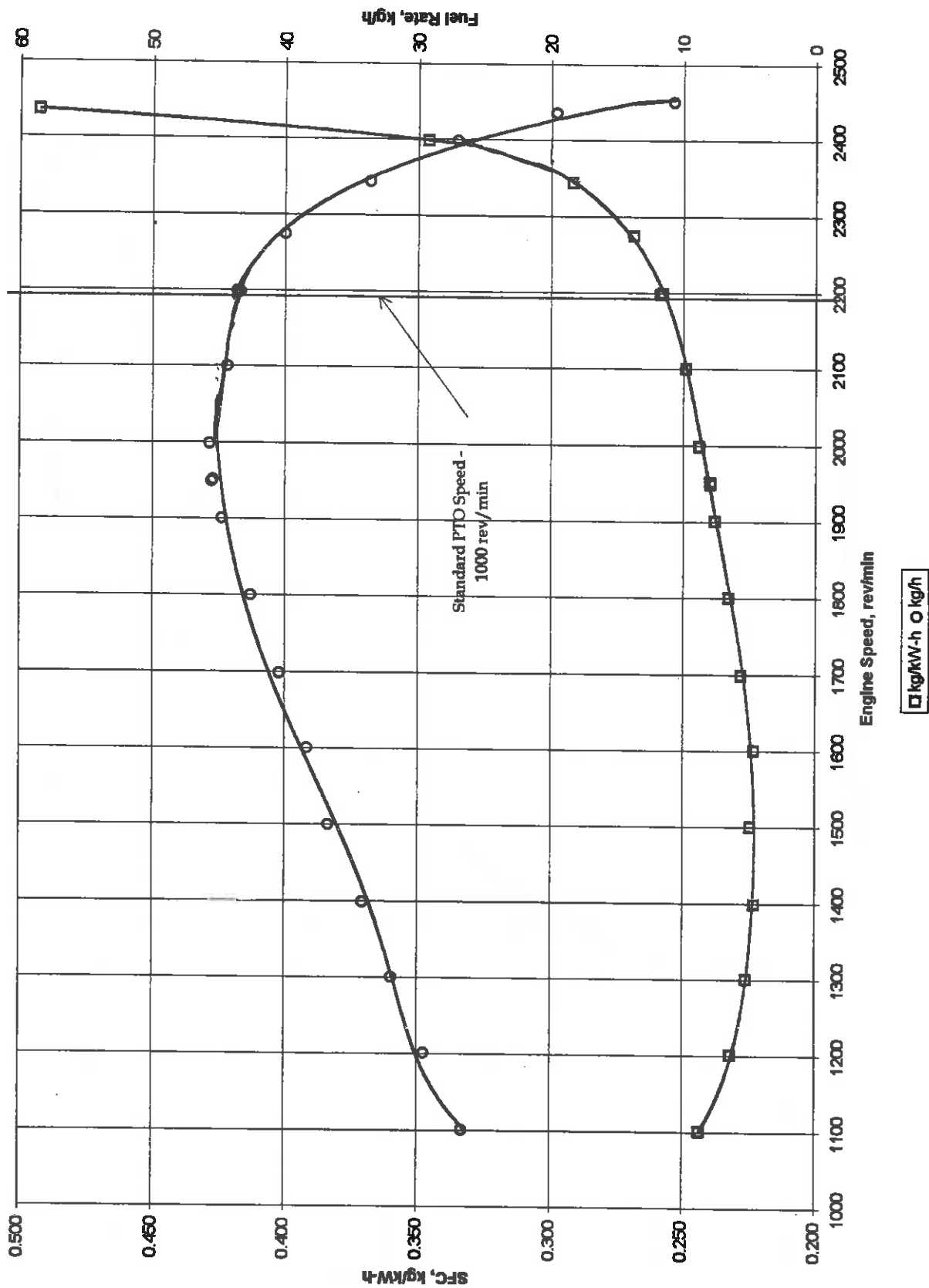
OBCD Drawbar Data (US)

Date of tests: 29-SEPT-97		Fuel density: 7.048 lb/gal		Test number: 1737											
Type of truck: Concrete															
Gear	Power	Pull	Speed	Engine speed	Slip	SFC	SFE	Temperature, deg F		Coolant	Oil	Dry	Wet	Rel Humidity	Baro Pres in Hg
	hp	lb	mph	rev/min		lb/hp.h	hp.h/gal	Fuel	14 psig, rear	12 psig, front			Drawbar height	15.0 in	
I. Maximum Power (unballasted, 4wd at 1950 rev/min)															
5	149.04	18705	2.99	2280	15%	0.582	12.11	124	186	233	57	49	58%	28.71	
6	172.31	18766	3.44	2243	13%	0.550	12.82	125	187	232	54	48	66%	28.70	
7	196.55	18042	4.09	2165	9%	0.498	14.15	127	186	234	60	51	55%	28.71	
8	207.47	16942	4.59	2072	7%	0.476	14.82	128	187	236	70	54	35%	28.74	
9	217.64	16227	5.03	1950	6%	0.461	15.28	128	191	238	71	56	40%	28.74	
10	224.00	14291	5.88	1950	4%	0.450	15.65	127	189	238	62	51	48%	28.72	
11	222.24	12283	6.79	1944	3%	0.451	15.61	126	191	238	67	54	44%	28.73	
12	221.68	10546	7.88	1957	2%	0.454	15.51	126	192	237	68	54	41%	28.73	
13	219.73	9129	9.03	1950	2%	0.458	15.40	127	192	238	69	55	42%	28.74	
II. Part loads (unballasted, 4wd)															
II.1 in selected gear at maximum power at rated engine speed.															
7	195.89	17303	4.25	2203	7%	0.492	14.32	127	186	234	59	50	55%	28.71	
II.1.1 75% of pull at maximum power at rated engine speed															
7	158.75	12979	4.59	2295	3%	0.514	13.71	129	187	232	78	59	32%	28.74	
II.1.2 50% of pull at maximum power at rated engine speed															
7	109.89	8657	4.76	2348	2%	0.579	12.18	129	185	232	81	60	29%	28.73	
II.1.3 higher gear at reduced engine speed, same pull and travel speed as II.1.1															
8	158.62	12974	4.58	2002	3%	0.461	15.29	127	185	231	79	59	30%	28.74	
II.1.4 higher gear at reduced engine speed, same pull and travel speed as II.1.2															
8	109.94	8649	4.77	2050	2%	0.506	13.93	126	183	229	81	60	29%	28.73	
II.1.5 higher gear at reduced engine speed, same pull and travel speed as II.1.3															
9	158.70	12975	4.59	1737	3%	0.433	16.26	126	185	231	80	59	28%	28.74	
II.1.6 higher gear at reduced engine speed, same pull and travel speed as II.1.4															
9	110.02	8605	4.79	1788	2%	0.469	15.01	124	183	228	81	60	29%	28.73	
II.2 in selected gear nearest to 4.6 mph at rated engine speed.															
10	197.24	11013	6.72	2198	3%	0.485	14.52	128	188	236	66	53	43%	28.72	
II.2.1 75% of pull at maximum power at rated engine speed															
10	155.75	8256	7.07	2297	2%	0.528	13.36	129	187	235	72	57	40%	28.73	
II.2.2 50% of pull at maximum power at rated engine speed															
10	106.50	5497	7.27	2344	1%	0.594	11.86	127	185	231	75	58	36%	28.73	
II.2.3 higher gear at reduced engine speed, same pull and travel speed as II.2.1															
11	155.67	8238	7.09	2005	2%	0.471	14.96	127	185	233	73	57	38%	28.73	
II.2.4 higher gear at reduced engine speed, same pull and travel speed as II.2.2															
11	106.61	5513	7.25	2040	1%	0.528	13.35	124	184	229	77	59	34%	28.73	
II.2.5 higher gear at reduced engine speed, same pull and travel speed as II.2.3															
12	155.58	8243	7.08	1747	2%	0.442	15.95	124	185	231	74	57	35%	28.73	
II.2.6 higher gear at reduced engine speed, same pull and travel speed as II.2.4															
12	106.39	5497	7.26	1780	1%	0.486	14.49	123	183	228	77	59	34%	28.73	

Power and Equivalent Crankshaft Torque

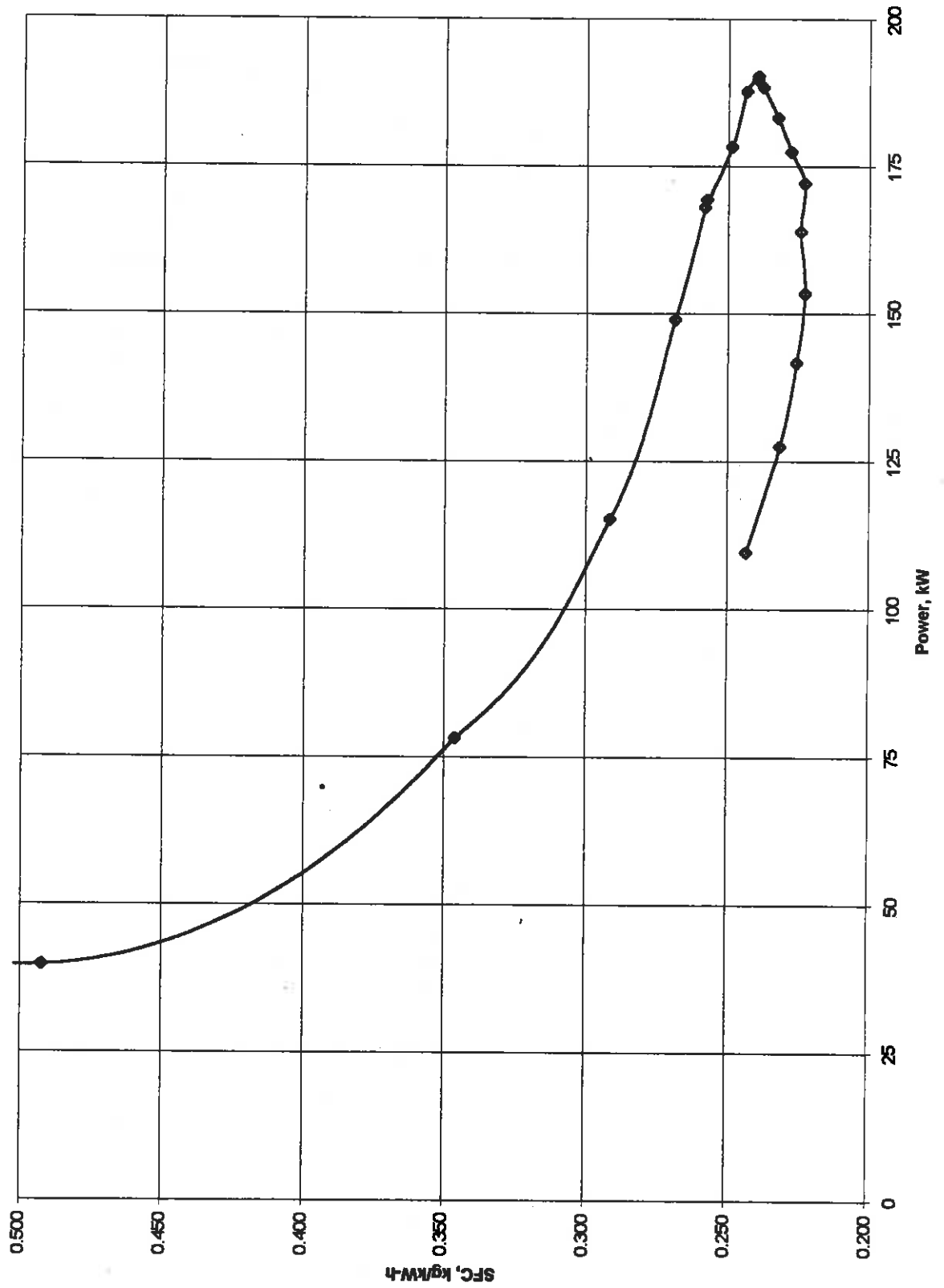


Specific Fuel Consumption and Fuel Rate



Case IH 8950

Power and Specific Fuel Consumption



Optional Tests - Ballasted Tractor, Front Drive Engaged
Tests conducted under the responsibility of the Nebraska Tractor Test Laboratory

OECD Drawbar Data (SI)												
Date of tests: 25-Sep-97		Fuel density: 0.845 kg/l		Test number: 1737								
Gear	Power kW	Pull kN	Speed km/h	Engine speed rev/min	Slip	SFC kg/kW.h	SFE kW/h	Temperature, deg C	Fuel 83 kPa, rear	Coolant 138 kPa, front	Oil 138 kPa, front	Rel hum- idity 419 mm
I. Maximum Power (ballasted, 4wd at 1950 rev/min)												
4	140.23	112.92	4.47	2217	7%	0.312	2.71	86	53	86	111	83%
5	149.28	108.39	4.96	2112	6%	0.299	2.83	86	54	86	112	84%
6	158.39	105.43	5.41	2001	6%	0.289	2.92	86	54	86	113	79%
7	164.37	94.74	6.25	1956	4%	0.277	3.05	88	54	88	114	71%
8	165.94	82.59	7.23	1954	3%	0.274	3.09	87	55	87	114	75%
9	166.31	71.21	8.41	1957	3%	0.273	3.09	88	54	88	114	79%
10	166.65	62.28	9.63	1948	2%	0.273	3.10	88	54	88	114	71%
11	164.17	53.24	11.10	1950	2%	0.276	3.06	88	54	88	114	72%
12	162.68	45.74	12.80	1955	2%	0.280	3.02	89	54	89	114	68%
13	161.34	39.72	14.62	1947	1%	0.282	3.00	88	54	88	114	68%
* Note: Slip limited to avoid excessive tractor bouncing												

OECD Drawbar Data (US)												
Date of tests: 25-Sep-97		Fuel density: 7.048 lb/gal		Test number: 1737								
Gear	Power hp	Pull lb	Speed mph	Engine speed rev/min	Slip	SFC lb/hp.h	SFE hp.h/gal	Temperature, deg F	Fuel 12 psig, rear	Coolant 20 psig, front	Oil 20 psig, front	Rel hum- idity 16.5 in
I. Maximum Power (ballasted, 4wd at 1950 rev/min)												
4	188.06	25386	2.78	2217	7%	0.512	13.75	187	128	187	232	83%
5	200.18	24366	3.08	2112	6%	0.491	14.36	187	129	187	233	84%
6	212.40	23701	3.36	2001	6%	0.475	14.83	187	130	187	236	79%
7	220.42	21298	3.88	1956	4%	0.456	15.47	190	129	190	237	71%
8	222.54	18567	4.49	1954	3%	0.450	15.66	189	131	189	237	75%
9	223.03	16009	5.22	1957	3%	0.449	15.70	190	130	190	237	79%
10	223.49	14002	5.99	1948	2%	0.448	15.72	191	129	191	238	71%
11	220.15	11968	6.90	1950	2%	0.453	15.55	191	129	191	238	72%
12	218.16	10283	7.96	1955	2%	0.460	15.31	192	129	192	238	68%
13	216.37	8930	9.09	1947	1%	0.463	15.21	191	129	191	238	68%
* Note: Slip limited to avoid excessive tractor bouncing												

Table 1.2 - *Linkage geometry dimensions.

		Dimension or range	Settings used on test
		[mm]	[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. 24
Date of test: 13 May 1996

The data presented here is from OECD test 1628 done on the Case
IH 7240 which has the mechanically identical hitch system.

	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
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 [kN]	67.9	68.1	70.8	72.5	73.4
point. [lb]	15269	15314	15908	16290	16493
at [kN]	--	91.6	81.1	77.5	74.9
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 [kN]	74.6	74.3	75.2	75.7	--
point [lb]	16772	16700	16898	17015	--
at [kN]	72.6	70.7	67.8	66.2	64.1
frame [lb]	16317	15894	15237	14877	14400

MEASUREMENT OF EXTERNAL NOISE LEVEL

Date of test	September 30, 1997
Location of test	Nebraska Tractor Test Laboratory, Lincoln, NE, USA
Sound Level meter	Bruel and Kjaer 2236
Type of track	Concrete oval
Gear Number	18th
Speed prior to acceleration	27.0 km/h
Noise Level	86.9 dB(A)

Repairs: None
Remarks: None

