OECD APPROVAL No's
Case International 9270 4WD Articulated # 1400/1
Steiger 9270 4WD Articulated # 1400/2
(Restricted code)
Date of approval: 25 Sept. 1992

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

REPORT ON TEST IN ACCORDANCE WITH OECD RESTRICTED CODE (CODE II)

FOR THE OFFICIAL TESTING OF AGRICULTURAL TRACTORS

RESTRICTED TEST-CODE II

CASE INTERNATIONAL 9270 (4 WD) Articulated
and STEIGER 9270 (4 WD) Articulated



MANUFACTURED BY: J.I. Case Company
3401 First Avenue
Fargo, North Dakota, 58102 USA

NEBRASKA TEST NO. 1659
Test date: June-July, 1992

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)53Final-Annex II, Restricted Code.

This report has been approved by the OECD Coordinating Centre in Paris (CEMAGREF) on 25 Sept. 1992

Case International 9270, 4WD articulated	OECD test # 1400/1
Steiger 9270, 4WD articulated	OECD test # 1400/2

These tractor models are technically identical in all respects except color and denomination; the tests have not been repeated and the approval numbers are valid for both tractor models.

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

Associate Director

Dr. Louis I. Leviticus

Chairman, Tractor Test Board

Dr. Leonard L. Bashford

Senior Test Engineer

David L. Morgan

Members, Tractor Test Board

Test Engineer

Brent T. Sampson

Dr. Robert D. Grisso

Dr. Kenneth Von Bargen

Date: NOV 04 1992

Table of Contents.

	Page
1. SPECIFICATIONS	1
2. TEST CONDITIONS	11
3. COMPULSORY TESTS	
Main Power Take-Off Performance	13
Power Lift and Hydr. Pump Perf.	16
Drawbar Performance	18
4. GRAPHS	20

SPECIFICATIONS OF TRACTOR.

Manufacturers name/address	J.I. Case Company 3401 First Avenue North Fargo, North Dakota 58102
Location of tractor assembly	Fargo plant
Submitted for test by	The manufacturer
Selected for test by	The manufacturer in agreement with the test station.
Place of running in	J.I. Case Fargo, North Dakota
Duration of running in	118
Location of Test	Nebraska Tractor Test Laboratory Lincoln, Nebraska, U.S.A.

SPECIFICATIONS OF TRACTOR

TRACTOR.

Make/Model/Type	Case IH 9270/4WD/articulated
Number of driving wheels	4
Serial number	-JCB00 29600-
1st Serial number	-JCB00 26799-

ENGINE.

Make	Cummins
Model	NTA-855-A
Type	Diesel, direct injection, turbocharged and intercooled
Serial Number	30334714
Cylinders	
Number/disposition	6, in-line, vertical
Bore x stroke	140.0 mm x 152.0 mm (5.512 in x 5.984 in)
Capacity	14013 ml (856 in³)
Compression Ratio	14.5 - 1
Arrangement of valves	Overhead
Cylinder liners	Wet, replaceable
Turbo-charging	
Make/Model/Type	Holset/BHT3B/exhaust gas driven
Pressure	132+/-13.5 kPa (19.14+/-1.96 psi)
Fuel System	
Feed system	Engine driven transfer pump
Make/Type/Model of filters	Case IH/spin-on/28-035
Number of filters	One
Fuel tank capacity	948 liters (250 US gallons)

Make/Model/Type Injection Pump	Cummins Type G/Model PT,AFC variable speed governor,gear pump supplies pressure for PT system
Pump Serial number	051880
Production setting of pump Flow Rate (Rated Eng.Spd and full load)	53.5 - 55.3 kg/h(118-122 lb/hr)
Make/Model/Type of injectors	Cummins PTD/Stop-top/PN 3047976
Injection timing	19° BTDC
Injection pressure	77.9 MPa (11306 psi)
Rail Pressure	800-883 kPa (116.1-128.1 psi)
Timing	17 degrees BTDC
Governor	
Make/Model/Type	Centrifugal flyweight, integral to fuel pump
Governed engine speed range	From 850 to 2350 rev/min
Rated engine speed	2100 rev/min
High-idle speed range	2300+/-50
Air Cleaner.	
Pre-cleaner	
Make/Model/Type	Donaldson/ Aspirated to exhaust
Air intake location	Top left corner of Cab.
Main Cleaner	
Make/Model/Type	Donaldson/EGB14-0160/dry with secondary safety element
Secondary element	Donaldson/pleated paper
Location of main cleaner	Front left fender
Maintenance indicator	Restriction switch in air inlet tube,light on dash
Lubrication system.	
Type of feed pump	Full pressure, positive displacement.
Type of filters	Full flow and bypass/spin-on
Number	2 in one housing
Oil cooler	Oil to water heat exchanger
Cooling system.	
Type of coolant	Liquid
Type of pump	Centrifugal,belt driven
Fan specification	Direct driven
Number of fan blades	8
Fan diameter	813 mm (32 in)
Coolant system capacity	62.5 liter (66 US qt)
Type of temperature control	Thermostat
Superpressure	48 kPa (7 psi)

Starting system.	
Make/Model/Type	Delco Remy/42 MT400/electro-mechanical engagement
Power Rating	7.46 kW (10 hp)
Cold starting aid	Ether spray in intake manifold and in-block coolant heater
Safety device	Electrical lockout on gearshift and PTO controls
Electrical system.	
Voltage	12 Volt
Generator	
Make/Model/Type	Delco Remy/Series 21SI/Type 200
Power rating	125 Ampere at 2100 engine rpm 1.50 kW (2 hp)
Batteries	
Number & connection	3-12 V batteries in parallel
Rating	90 amp-hours per battery at 20 hour rating 625 Cold crank amps per battery
Exhaust system.	
Make/Model/Type	Donaldson/MAM 090673/expansion chamber
Location	Vertical,right front side of cab, outlet directed to right side

TRANSMISSION TO WHEELS

Clutch. (travel alone)	
Make/Model/Type	UVC/Multi-plate/Oil immersed
Number of plates	24
Plate diameter	228.6 mm (9.0 in)
Method of operation	Hydraulic, pedal actuated.
Gear Box.	
Make/Model/Type	UVC/synchroshift/Manual
Arrangement	Countershaft
Number of gears	12 forward, 3 reverse controlled by two hand levers Lever 1: 4 speed ranges Lever 2: 3 forward and 1 reverse
Oil cooler	Air to oil, radiator mounted
Available options	None

Rear axle and final drives.

Make/model/Type	Raba 598/outboard planetary
Differential Lock	
Type	multiple disc clutch with limited slip
Method of engagement	electrically
Method of disengagement	electrically

Front Axle and final drives.

Make/Model/Type	Raba 598/outboard planetary
Differential lock	
Type	multiple disc clutch with limited slip
Method of engagement	electrically
Method of disengagement	electrically

Total ratios and travelling speeds

Gear Number	Number of engine revolutions for one revolution of the driving wheels	Nominal travelling speed at rated engine speed of 2100 rev/min [km/h]	[mph]
Forward			
A1	174.599	4.16	2.58
A2	129.128	5.62	3.49
B1	104.138	6.97	4.33
A3	94.404	7.69	4.78
B2	77.010	9.43	5.86
C1	65.850	11.03	6.85
B3	56.298	12.90	8.01
C2	48.706	14.91	9.26
D1	41.905	17.32	10.77
C3	35.613	20.39	12.67
D2	31.002	23.42	14.55
D3	22.646	32.06	19.92
Reverse			
AR	122.606	5.92	3.68
BR	73.110	9.93	6.17
CR	41.905	15.70	9.76

Calculated with a tire dynamic radius index of 917mm (36.1 in) (ISO 4251/1-1984)
Number of revolutions of front wheels for one revolution of rear wheels 1.000

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

Power take-off proportional to engine speed 1000 rev/min.

Location	Rear of tractor, vertical center plane.
Diameter of shaft	44.4 mm (1.75 in)
Number of splines	20; conforms to ISO 500/1979.
Height above ground	744 mm (29.3 in)
Distance from median plane of tractor	0 mm
Distance behind rear axle	635 mm (25.0 in)
PTO Speed at rated engine spd	1000.5 rev/min
Engine speed at Std. PTO spd	2098 rev/min
Ratio of Engine rpm to PTO rpm	2.09797:1
Direction of rotation (viewed facing driving end)	Clockwise.

POWER LIFT.

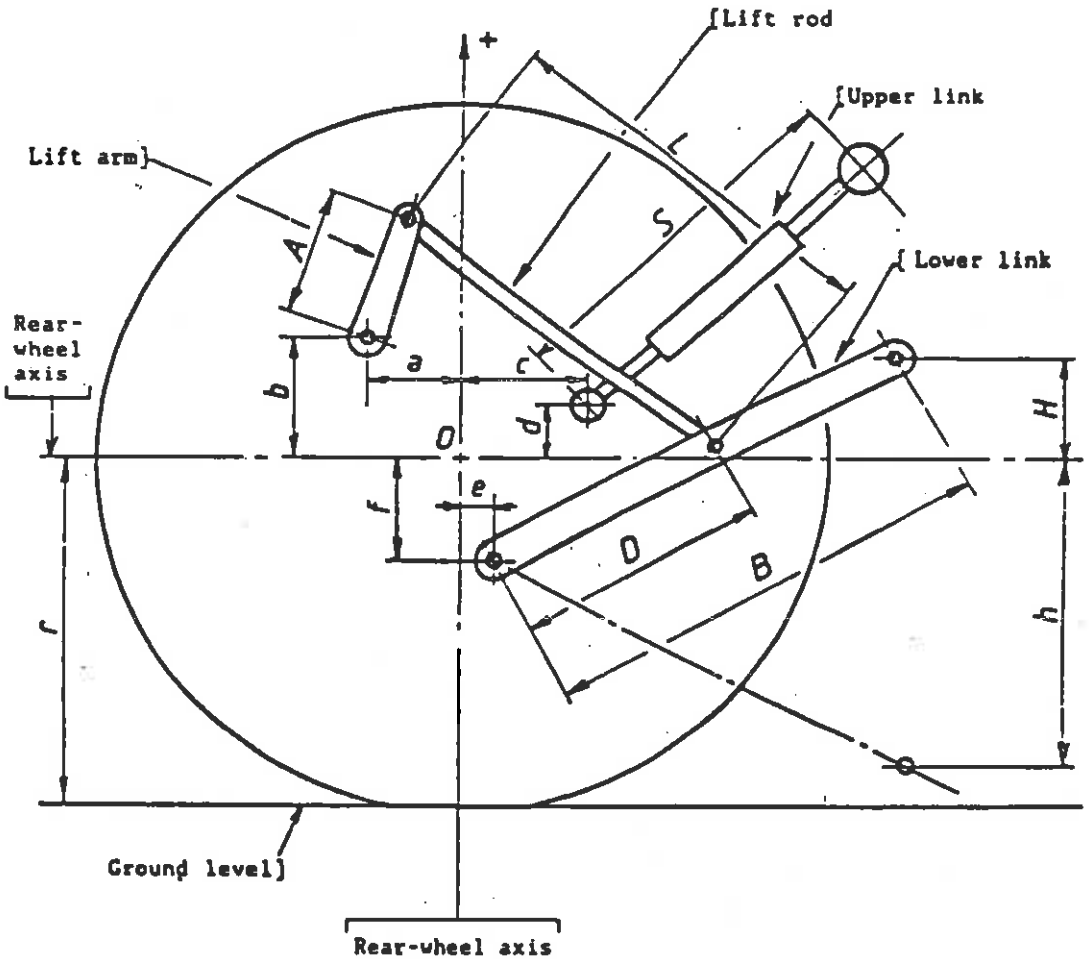
Make/Model/Type	Cessna axial piston pump, pressure and flow compensated
Type of hydraulic system	Closed center, load sensing
Number/Type of cylinders	Two external,both single acting
Type of linkage lock for transport	Hydraulic
Relief valve setting	17.237 +/-0.345 MPa (2500 +/- 50 psi)
Opening pressure of cylinder safety valve	20.684 MPa (3000 psi)
Lift pump type	Axial piston, pressure and flow compensated
Power transmission to pump	Direct drive
Type/Number of filters	One full flow/spin on cartridge
Location of oil reservoir	separate reservoir, right side,rear end of front frame
Number/Type/Location of tapping points	4 pairs of ISO standard coup - lings at rear of tractor
Max. oil volume available for external cylinders	22.7 liter (24 US qt)

THREE POINT LINKAGE.

- Category IV-N in conformity with ISO 730/1-1977, except for horizontal distance from PTO to center of hitch points on the lower links while in the horizontal position - 664 mm

- Category adaptor — Quick-Attach Coupler

THREE POINT LINKAGE



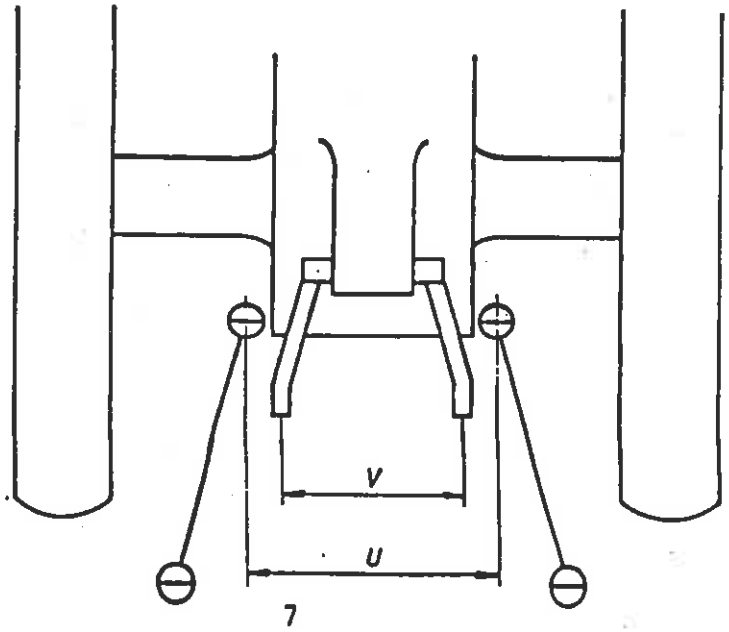


Table 1.1 - *Linkage geometry dimensions.

		Dimension or range		Settings used on test	
		[mm]	[in]	[mm]	[in]
Lift category		III			
Rear Tire - Radius Index	(r)	917	36.1		
Front Tire - Radius Index	(r')	917	36.1		
Length of lift arms	(A)	533	21.0	same	
Length of lower links	(B)	997	39.3	same	
Distance of lift arm pivot from rear wheel axis: horizontal	(a)	381	15.0	same	
Distance of lift arm pivot from rear wheel axis: vertical	(b)	592	23.3	same	
Horizontal distance between the 2 lower link points	(u)	825	32.5	same	
Horizontal distance between the 2 lift arm end points	(v)	1057	41.6	same	
Length of upper link	(S)	756 to 946	29.8 to 37.2	851	33.5
Distance of upper link pivot from rear wheel axis: horizontal	(c)	466	18.4	same	
Distance of upper link pivot from rear wheel axis: vertical	(d)	270	10.6	same	
Distance of lower link pivot from: rear wheel axis: horizontal	(e)	311	12.2	same	
Distance of lower link pivot from: rear wheel axis: vertical	(f)	355	14.0	same	
Distance of lower link pivot points to lift rod pivot pts on lower links.	(D)	647	25.5	same	
Length of lift rods	(L)	820 to 1016	32.3 to 40.0	975	38.4
Height of lower hitch points relative to rear wheel axis: In low position	(h)	445 to 752	17.5 to 29.6	695	27.4
In high position	(H)	51 to 359	2.0 to 14.1	114	4.5
Height above ground of lower hitch points when locked in transport position.		968 to 1276	38.1 to 50.2	1031	40.6

*Assuming (r) with a dynamic tire index of 917 mm (36.1 in)
ISO 4251/1-1984

SWINGING DRAWBAR.

Type	Swings for hook-up only
Height above ground:	Maximum 544 mm (21.4 in) Minimum 384 mm (15.1 in)
Adjustments	By inverting drawbar
Distance of hitch point from rear wheel axis, horizontal	1143 mm (45.0 in)
Distance of hitch point from PTO shaft end	
Vertically	203 & 356 mm (8.0 & 14.0 in)
Horizontally	509 mm (20.0 in)
Lateral adjustment (center of clevis)	
Right side	215 mm (8.5 inch)
Left side	215 mm (8.5 inch)
Distance of pivot point from rear wheel axle;horizontally	1140 mm (44.9 in)
Diameter of drawbar pin hole	46 mm (1.8 in)
Maximum vertical permissible load	62.28 kN (14005 lb)

STEERING

Make/Model/Type	Eaton hydrostatic steering control unit
Method of operation	Steering wheel
Pump	Cessna axial piston,pressure and flow compensated
Rams	Two
Working pressure	15.9 MPa (2300 psi)

BRAKES

Service brake.	
Make/Model/Type	Kelsey Hayes,caliper,dry disc
Method of operation	manual/hydraulic,operated by foot pedal.
Trailer braking take-off	none
Parking brake.	
Type	caliper/dry disc
Method of operation	mechanically by hand lever

WHEELS

Number.	
Front	Two of four/Driving and steering
Rear	Two or four/Driving and steering
Wheel base	3678 mm (144.8 in)

Track width adjustment (fixed)

	Inside distance [mm]	[in]	Outside distance [mm]	[in]	Adjustment method
Front	2032	60.0	3480	130.0	Non-adjustable
Rear	2032	60.0	3480	130.0	Non-adjustable

PROTECTIVE STRUCTURE

Make/Model/Type	Case IH,4CSF-2
Manufacturer's name/address	Case IH 3401 First Avenue North Fargo, North Dakota
Protective device	Cab,Case IH,4CSF-2,4 post with charpy v-notch certified material
Tiltable	No
OECD approval number	CSS 076/21 for Case IHC 9270 CSS 076/22 for Steiger 9270

DRIVER'S SEAT

Make/Model/Type	Sears, P108 Air Seat, Type 9100
Type of suspension	Air suspension
Type of damping	Fore/aft and lateral
Range of adjustment	
Longitudinal	152 mm (6.0 in.)
Vertical	76 mm (3.0 in.)

LIGHTING.

	Height above ground of center [mm]	[in]	Size [mm]	Distance from outside edge of lights to median plane of tractor. [mm]	[in]
Headlights	1840	72.4	102 x 152	420	16.5
Cab-lights(rear)	3353	132.0	102 x 165	800	31.5
(front)	3175	125.0	102 x 165	762	30.0
Rearlights	1925	75.8	57 x 165	1067	42.0
Reflectors	N/A				

TEST CONDITIONS.

Overall dimensions.

Length mm/inch	Width as tested with duals mm/inch	Height at top of protective structure mm/inch	exhaust stack mm/inch
7544/297.0	4005/157.8	3632/143	3707/146

Ground clearance (unballasted) 365 mm (14.4 in)
Clearance-limiting part Bottom of swinging drawbar

Tractor Mass (with Cab, full fuel tank)

		Without driver [kg]	[lb]	With driver [kg]	[lb]
Unballasted	Front	8320	18342	8360	18432
	Rear	7121	15699	7156	15776
	Total	15441	34043	15516	34208

Tire and track width specifications.

	Front	Rear
Make	Goodyear	Goodyear
Dimensions	20.8R42	20.8R42
Ply rating	2 star (10 ply)	2 star (10 ply)
Type	Radial	Radial
Max.load (tire manufacturer)	38.48 kN (8650 lb)	38.48 kN (8650 lb)
Max.load(tractor manufacturer)	same	same
Inflation pressure(tire mfr)	165 kPa (24 psi)	165 kPa (24 psi)
Dynamic Radius Index	917 mm (36.1 in)	917 mm (36.1 in)
Chosen track width - inner	1943/76.5	1943/76.5
- outer	3398/133.8	3398/133.8

Oils and Lubrication.

Capacity and change interval:

	Capacity liter	Capacity quart	Oil change hours	Filter change hours
Engine	37	39	250	250
Gear Box	34	36	1000	1000
Front and Rear axle	21.2	22.4	1000	---
Hydraulic system (includes steering, and hydraulic lift)	68	72	1000	1000

Specifications:

	Recommended	Used during test
Engine oil		
Type	SAE 15W40	same
Viscosity	14.8 cSt at 100°C	
Classification	API CC/CD	
Transmission oil		
Type	Case IH Hytran Plus	same
Viscosity	6.2 cSt at 100°C	
Classification	NA	
Hydraulic fluid		
Type	Case IH Hytran Plus	same
Viscosity	6.2 cSt at 100°C	
Classification	NA	
Steering oil	same as hydraulic	same
Grease	NLGI No.2 Lithium	
Number of lubrication points: 27		

Fuel

Type	Grade 2-D,in conformity with the national standard
Density (Pto test)	0.837 Kg/l (6.978 lb/gal)
(Drawbar test)	Same as on PTO test
Cetane number	53.9
Viscosity	2.31 CSt at 38°C (100°F)

COMPULSORY TESTS.

(1) MAIN POWER TAKE-OFF PERFORMANCE (1000 rev/min).

Date of tests : 17 June 1992
Location of tests : Tractor Testing Laboratory
University of Nebraska, Lincoln, Nebraska.
Type of Dynamometer: Eaton Dynamatic 2025 D.G.

Power kW (hp)	Speeds engine rev/min	Speeds PTO rev/min	Fuel Consumption hourly l/h (gal/h)	Fuel Consumption hourly kg/h (lb/h)	Fuel Consumption specific kg/kW.h (lb/hp.h)	Specific energy kW.h/l (hp.h/gal)
1.1 Maximum Power- 2 hour test.						
236.76 (317.50)	1849	881	64.97 (17.16)	54.33 (119.77)	0.229 (0.377)	3.64 (18.50)
1.2 Power at rated engine speed. (1 hour)						
223.01 (299.06)	2102	1001	66.18 (17.48)	55.33 (121.99)	0.248 (0.408)	3.37 (17.11)
1.3 Maximum power at standard PTO speed. (1000 rev/min)						
223.01 (299.06)	2102	1001	66.18 (17.48)	55.33 (121.99)	0.248 (0.408)	3.37 (17.11)

1.4 Part Loads - governor hand lever set for maximum power at rated engine speed

Power kW (hp)	Speeds engine rev/min	Speeds PTO rev/min	Fuel Consumption hourly l/h (gal/h)	Fuel Consumption hourly kg/h (lb/h)	Fuel Consumption specific kg/kW.h (lb/hp.h)	Specific energy kW.h/l (hp.h/gal)
i. Torque corresponding to maximum power at rated engine speed.						
223.01 (299.06)	2102	1001	66.18 (17.48)	55.33 (121.99)	0.248 (0.408)	3.37 (17.11)
ii. 85% of the torque obtained in (i)						
194.78 (261.20)	2162	1030	61.03 (16.12)	51.03 (112.50)	0.262 (0.431)	3.19 (16.20)
iii. 75% of the torque defined in (ii)						
148.67 (199.37)	2199	1047	51.26 (13.54)	42.86 (94.50)	0.288 (0.474)	2.90 (14.72)
iv. 50% of the torque defined in (ii)						
100.48 (134.75)	2227	1060	39.22 (10.36)	32.79 (72.30)	0.326 (0.537)	2.56 (13.01)
v. 25% of the torque defined in (ii)						
50.66 (67.93)	2253	1073	30.27 (8.00)	25.31 (55.80)	0.500 (0.821)	1.67 (8.50)
vi. unloaded						
0.78 (1.04)	2298	1094	20.18 (5.33)	16.87 (37.20)	21.721 (35.708)	0.04 (0.20)

1.5 Part Loads - governor hand lever set for maximum power at standard pto speed

Power kW (hp)	Speeds engine rev/min	Speeds PTO rev/min	Fuel Consumption hourly l/h (gal/h)	Fuel Consumption hourly kg/h (lb/h)	Fuel Consumption specific kg/kW.h (lb/hp.h)	Specific energy kW.h/l (hp.h/gal)
i. Torque corresponding standard PTO rpm						
223.01 (299.06)	2102	1001	66.18 (17.48)	55.33 (121.99)	0.248 (0.408)	3.37 (17.11)
ii. 85% of the torque obtained in (i)						
194.78 (261.20)	2162	1030	61.03 (16.12)	51.03 (112.50)	0.262 (0.431)	3.19 (16.20)
iii. 75% of the torque defined in (ii)						
148.67 (199.37)	2199	1047	51.26 (13.54)	42.86 (94.50)	0.288 (0.474)	2.90 (14.72)
iv. 50% of the torque defined in (ii)						
100.48 (134.75)	2227	1060	39.22 (10.36)	32.79 (72.30)	0.326 (0.537)	2.56 (13.01)
v. 25% of the torque defined in (ii)						
50.66 (67.93)	2253	1073	30.27 (8.00)	25.31 (55.80)	0.500 (0.821)	1.67 (8.50)
vi. Unloaded						
0.78 (1.04)	2298	1094	20.18 (5.33)	16.87 (37.20)	21.721 (35.708)	0.04 (0.20)

No-load maximum engine speed 2298 rev/min

Equivalent engine torque:

at rated engine speed	1013 Nm (2100 rev/min)
at maximum power	1222 Nm (1849 rev/min)
at maximum torque	1512 Nm (1292 rev/min)

Mean atmospheric conditions:

Temperature-dry bulb	24'C (75'F)
Relative humidity	49 %
Barometer	96.69 kPa (28.55 in Hg)

Maximum Temperatures :		
	Thermostat housing	88'C (190'F)
	Engine oil	111'C (232'F)
	Fuel to injection pump	56'C (132'F)
	Engine air intake	29'C (84'F)
	Trans./Hydr. Oil	57'C (134'F)
Turbocharger boost pressure		
	at rated engine speed	124 kPa (18.0 psi)
	at maximum power	124 kPa (18.0 psi)

2. HYDRAULIC POWER AND LIFTING FORCE.

Date of test: 19 June 1992
Location: TTL/UNL, Lincoln, Nebr.

2.1 HYDRAULIC POWER TEST - HYDRAULIC PUMP PERFORMANCE

Sustained pressure with pump stalled	17.58 MPa (2550 psi)
Pump delivery rate at minimum pressure & rated engine speed	114.7 l/m (30.3 gpm)

	Flow Rate l/min (gal/min)	Pressure MPa (psi)	Power kW (hp)
At 90% of relief valve setting	102.6 (27.1)	15.8 (2290)	27.0 (36.2)
At maximum hydraulic power.	101.4 (26.8)	16.2 (2350)	27.4 (36.7)

Tapping point(s)	Two hydraulic outlets combined
Hydraulic fluid temperature at flow meter	67'C (153'F)

2.2 POWER LIFT TEST.

Date of test: 29 July, 1992
Location of test: J.I.Case Co, Fargo, North Dakota, under supervision of the staff of the Tractor Testing Laboratory.

		Hitch Points	Frame
Lower hitch points above ground - down position.	[mm/in]	231/9.1	218/8.6
Vertical movement without load	[mm/in]	802/31.6	870/34.2
Vertical movement with load	[mm/in]	755/29.7	816/32.1
Maximum corrected force through full range	[kN/lbf]	89.3/20084	74.1/16650
Corresponding pressure	[kPa/psi]	15823/2295	
Moment about rear axle	[kN.m/ft.lb]	222.4/164015	229.5/169275
Maximum mast tilt angle	[degrees]	--	4.5

Lifting height relative to the horizontal position of lower links

[mm]		-351	-338	-300	-201	-102	0
[in]		-13.8	-13.3	-11.8	-7.9	-4.0	0
Corrected lifting forces.							
hitch points	[kN]	--	118.8	115.2	112.2	108.0	106.8
	[lb]	--	26708	25898	25232	24287	23999
at frame	[kN]	110.3	--	107.0	105.6	103.8	99.8
	[lb]	24795	--	24048	23742	23346	22428

Lifting height relative to the horizontal position of lower links

[mm]		99	201	300	401	417	465
[in]		3.9	7.9	11.8	15.8	16.4	18.3
Corrected lift forces.							
hitch points	[kN]	105.0	100.7	96.2	93.0	89.3	--
	[lb]	23603	22631	21632	20903	20084	--
at frame	[kN]	95.4	91,5	84.6	81.7	--	74.1
	[lb]	21456	20574	19026	18369	--	16650

Date of tests: 18-Jun-92 Fuel density: 0.838 kg/l
Type of track: Concrete Test number: 1659

Gear	Power	Pull	Speed	Engine speed	Slip	SFC		Temperature, deg C					Rel hum-	Press
	kW	kN	km/h	rev/min		kg/kW.h	kW.h/l	Fuel	Coolant	Oil	Dry	Wet	idity	kP
II. Part loads (unballasted, 4wd)					Tire pressure:		83 kPa, rear		83 kPa, front		Drawbar height		419 mm	
II.1 in selected gear at maximum power														
6 (C1)	198.88	66.06	10.84	2097	1.73%	0.278	3.01	63	81	106	22	17	61%	97
II.1.1 75% of pull at maximum power at rated speed														
6 (C1)	155.05	49.47	11.28	2172	1.36%	0.302	2.77	63	83	105	30	20	39%	97
II.1.2 50% of pull at maximum power at rated speed														
6 (C1)	106.38	33.26	11.51	2209	0.90%	0.354	2.36	63	80	104	30	20	39%	97
II.1.3 next higher gear at reduced engine speed, same pull and travel speed as II.1.1														
7 (B3)	154.74	49.37	11.28	1858	1.27%	0.272	3.07	63	82	104	30	20	39%	97
II.1.4 next higher gear at reduced engine speed, same pull and travel speed as II.1.2														
7 (B3)	106.42	33.29	11.51	1886	0.71%	0.315	2.65	62	81	103	30	20	39%	97
II.2 in selected gear nearest to 7.5 km/h														
4 (A3)	197.44	94.83	7.50	2099	2.72%	0.279	3.00	64	82	106	24	18	56%	97
II.2.1 75% of pull at maximum power at rated speed														
4 (A3)	154.44	70.95	7.84	2177	2.00%	0.301	2.78	63	82	106	29	19	38%	97
II.2.2 50% of pull at maximum power at rated speed														
4 (A3)	105.19	47.26	8.01	2211	1.18%	0.353	2.37	63	81	104	29	19	38%	9
II.2.3 next higher gear at reduced engine speed, same pull and travel speed as II.1.1														
5 (B2)	154.30	70.90	7.83	1775	1.91%	0.265	3.15	62	82	103	29	19	38%	97
II.2.4 next higher gear at reduced engine speed, same pull and travel speed as II.1.2														
5 (B2)	106.00	47.52	8.03	1808	1.27%	0.295	2.83	62	81	101	29	19	38%	97

Date of tests: 18-Jun-92 Fuel density: 6.978 lb/gal
Type of track: Concrete Test number: 1659

Gear	Power	Pull	Speed	Engine speed	Slip	SFC		Temperature, deg F					Rel hum-	Pres
	hp	lb	mph	rev/min		lb/hp.h	hp.h/gal	Fuel	Coolant	Oil	Dry	Wet	idity	in H
II. Part loads (unballasted, 4wd)					Tire pressure:		12 psig, rear		12 psig, front		Drawbar height		16.5 in	
II.1 in selected gear at maximum power														
6 (C1)	266.71	14850	6.74	2097	1.73%	0.457	15.26	146	178	222	72	62	61%	28
II.1.1 75% of pull at maximum power at rated speed														
6 (C1)	207.92	11122	7.01	2172	1.36%	0.497	14.05	146	181	222	86	68	39%	28
II.1.2 50% of pull at maximum power at rated speed														
6 (C1)	142.66	7478	7.15	2209	0.90%	0.583	11.98	145	176	219	86	68	39%	2
II.1.3 next higher gear at reduced engine speed, same pull and travel speed as II.1.1														
7 (B3)	207.50	11098	7.01	1858	1.27%	0.448	15.58	145	180	220	86	68	39%	28
II.1.4 next higher gear at reduced engine speed, same pull and travel speed as II.1.2														
7 (B3)	142.71	7485	7.15	1886	0.71%	0.519	13.46	144	178	217	86	68	39%	28
II.2 in selected gear nearest to 4.6 mph														
4 (A3)	264.77	21318	4.66	2099	2.72%	0.458	15.24	147	180	223	76	64	56%	28
II.2.1 75% of pull at maximum power at rated speed														
4 (A3)	207.11	15950	4.87	2177	2.00%	0.495	14.09	146	180	222	85	67	38%	28
II.2.2 50% of pull at maximum power at rated speed														
4 (A3)	141.07	10626	4.98	2211	1.18%	0.580	12.04	145	177	219	85	67	38%	28
II.2.3 next higher gear at reduced engine speed, same pull and travel speed as II.1.1														
5 (B2)	206.92	15940	4.87	1775	1.91%	0.436	16.00	144	179	217	85	67	38%	28
II.2.4 next higher gear at reduced engine speed, same pull and travel speed as II.1.2														
5 (B2)	142.14	10684	4.99	1808	1.27%	0.486	14.37	143	177	215	85	67	38%	28

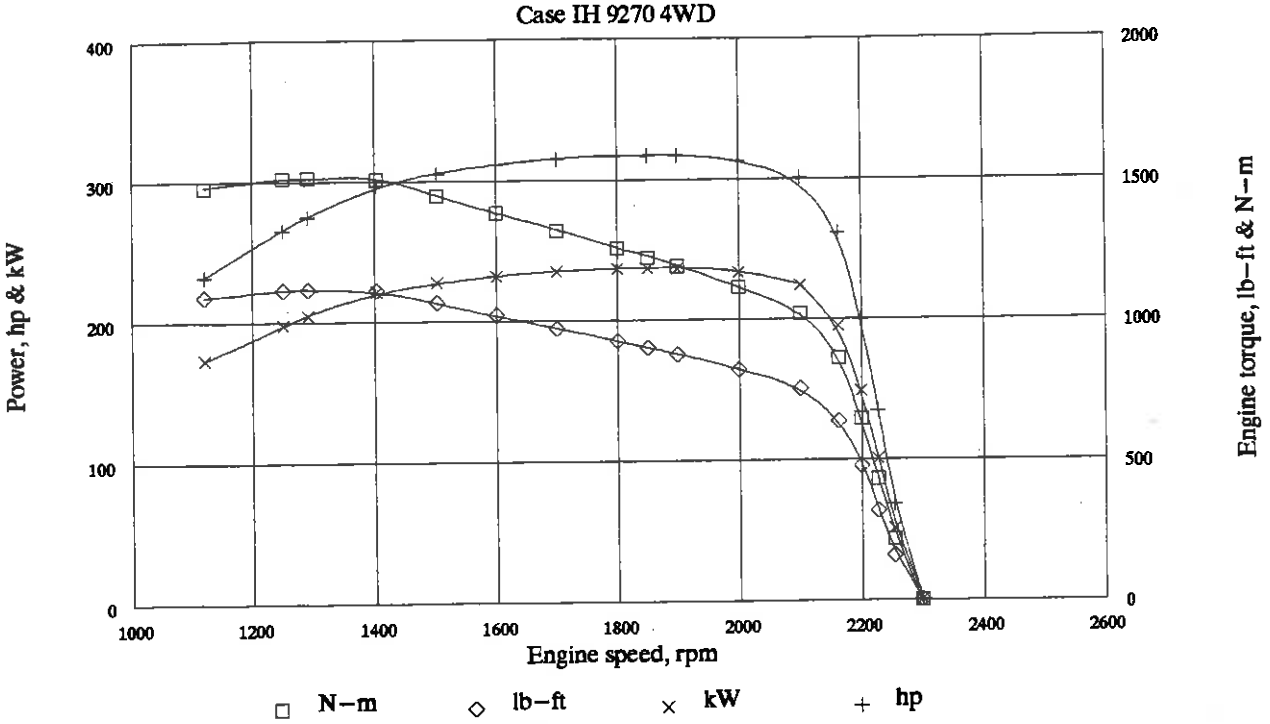
OECD Drawbar Data (SI)

	Date of tests:	18-Jun-92			Fuel density:	0.838 kg/l								
	Type of track:	Concrete			Test number:	1659								
Gear	Power	Pull	Speed	Engine speed	Slip	SFC		Temperature, deg C					Rel hum-	Pressure
	kW	kN	km/h	rev/min		kg/kW.h	kW.h/l	Fuel	Coolant	Oil	Dry	Wet	idity	kPa
1. Maximum Power (unballasted, 4wd at 1850 rev/min)						Tire pressure:		83 kPa, rear		83 kPa, front		Drawbar height	419 mm	
1 (A1)	155.43	152.11	3.68	2153	13.89%	0.324	2.58	54	80	104	27	19	47%	97.87
2 (A2)	197.10	145.40	4.88	1965	7.41%	0.276	3.03	54	82	106	26	19	51%	97.83
3 (B1)	206.34	126.18	5.89	1849	4.22%	0.261	3.21	53	82	104	26	18	46%	97.80
4 (A3)	208.66	114.66	6.55	1848	3.34%	0.261	3.21	55	83	106	24	17	49%	97.73
5 (B2)	210.87	93.73	8.10	1847	2.45%	0.257	3.26	56	82	105	21	16	60%	97.60
6 (C1)	210.91	79.68	9.53	1850	2.09%	0.258	3.25	56	83	106	22	16	54%	97.66
7 (B3)	209.66	67.58	11.17	1848	1.73%	0.257	3.26	54	83	106	23	17	55%	97.70
8 (C2)	208.05	57.74	12.97	1852	1.54%	0.260	3.22	55	82	106	23	17	55%	97.73

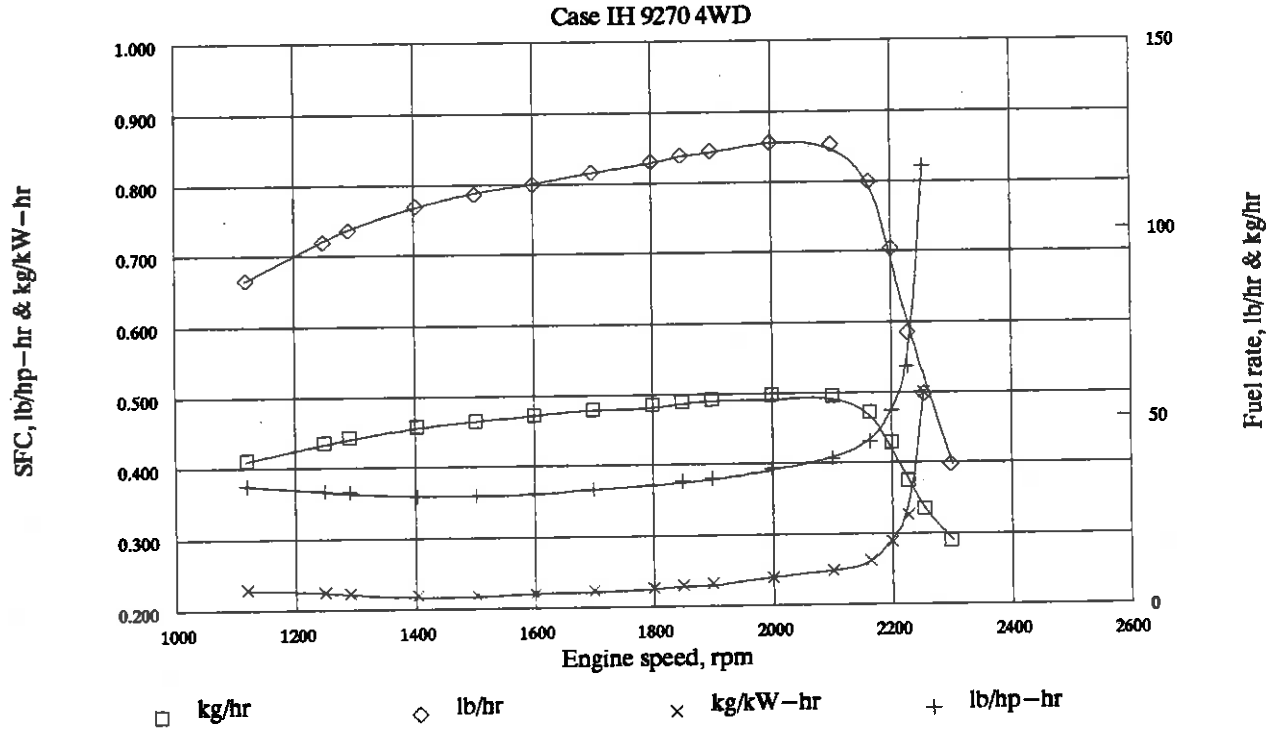
OECD Drawbar Data (US)

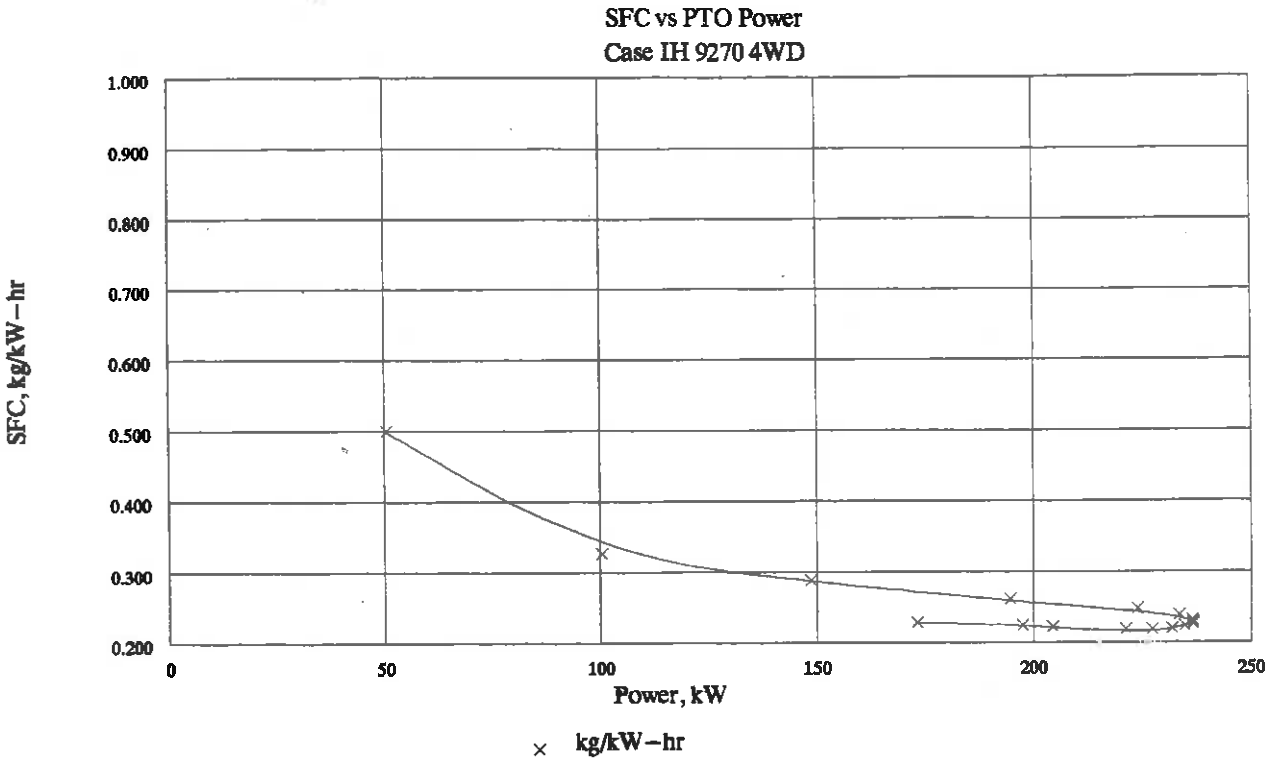
	Date of tests:	18-Jun-92			Fuel density:	0.838 lb/gal								
	Type of track:	Concrete			Test number:	1659								
Gear	Power	Pull	Speed	Engine speed	Slip	SFC		Temperature, deg F					Rel hum-	Pressure
	hp	lb	mph	rev/min		lb/hp.h	hp.h/gal	Fuel	Coolant	Oil	Dry	Wet	idity	in Hg
1. Maximum Power (unballasted, 4wd at 1850 rev/min)						Tire pressure:		12 psig, rear		12 psig, front		Drawbar height	16.5 in	
1 (A1)	208.44	34197	2.29	2153	13.89%	0.532	13.11	130	177	219	81	67	47%	28.90
2 (A2)	264.31	32688	3.03	1965	7.41%	0.454	15.38	130	179	222	79	66	51%	28.89
3 (B1)	276.71	28366	3.66	1849	4.22%	0.429	16.28	128	180	220	78	65	46%	28.88
4 (A3)	279.81	25777	4.07	1848	3.34%	0.429	16.28	131	181	222	75	63	49%	28.86
5 (B2)	282.79	21072	5.03	1847	2.45%	0.422	16.54	132	180	222	69	61	60%	28.82
6 (C1)	282.83	17912	5.92	1850	2.09%	0.423	16.48	133	181	223	71	61	54%	28.84
7 (B3)	281.16	15192	6.94	1848	1.73%	0.422	16.52	130	181	222	73	62	55%	28.85
8 (C2)	279.00	12980	8.06	1852	1.54%	0.427	16.34	131	180	222	74	63	55%	28.86

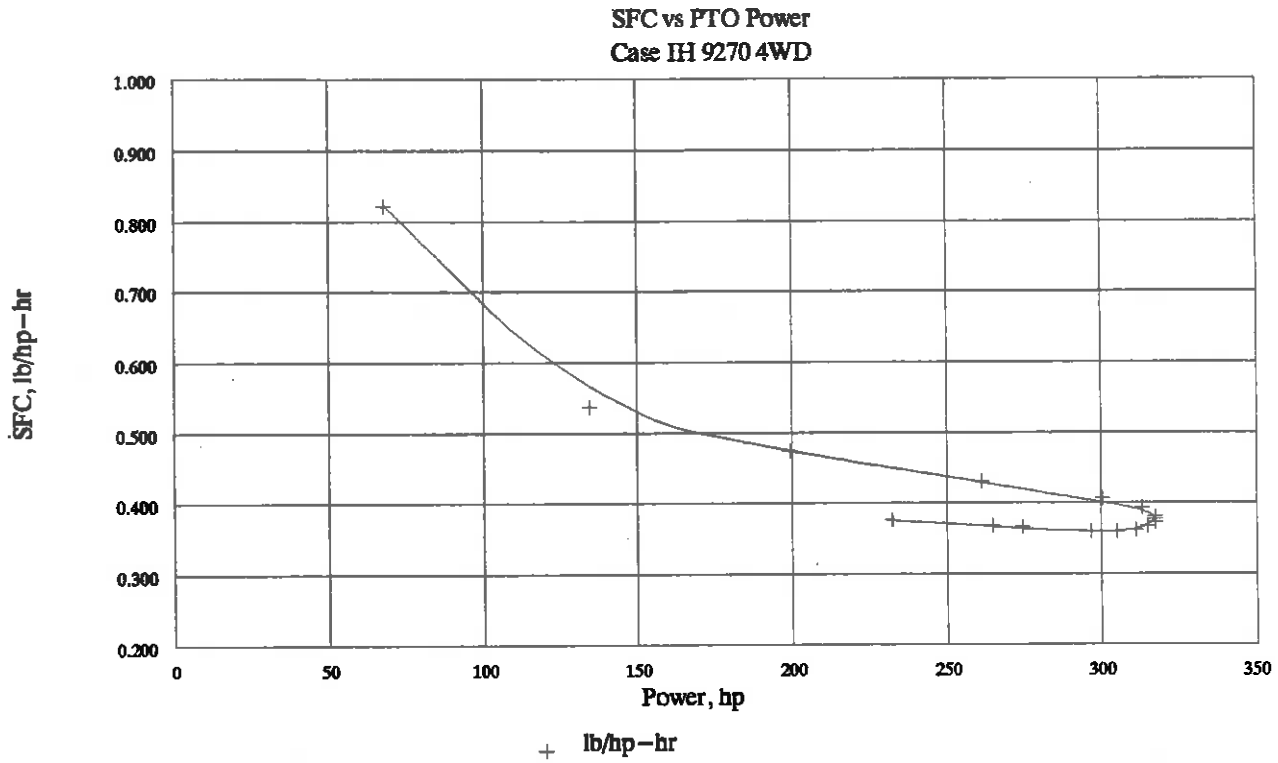
Power Take Off Performance
Case IH 9270 4WD



PTO Fuel Consumption
Case IH 9270 4WD




SFC vs PTO Power
Case IH 9270 4WD
SFC, kg/kW−hr
1.000
0.900
0.800
0.700
0.600
0.500
0.400
0.300
0.200
0
50
100
150
200
250
Power, kW
kg/kW−hr


SFC vs PTO Power
Case IH 9270 4WD
SFC, lb/hp−hr
1.000
0.900
0.800
0.700
0.600
0.500
0.400
0.300
0.200
0
50
100
150
200
250
300
350
Power, hp
lb/hp−hr

Repairs: None
Remarks: None