Report on test in accordance with
OECD STANDARD CODE II for the Official
Testing of Agricultural Tractor Performance

Restricted Code

OECD No. 1463



Agricultural Tractor
CASE-IH-MAXXUM 5130 (4WD), SERIES II
40 km/h version

Manufacturer

JI CASE GmbH
D-41460 Neuss

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This is a report on a tractor test in accordance with OECD STANDARD CODE for the Official Testing of Agricultural Tractor Performance (C(87)53(Final), CODE II) and amendments (C(90)79, C(92)52).

It does not contain an evaluation of the tractor on practical work.

Duration of tests: November 1992 till March 1993

DLG-Testing Station for Agricultural Machinery, Max-Eyth-Weg 1,
D-64823 Groß-Umstadt

This report has been approved by the OECD Co-Ordinating Centre (CEMAGREF, France) as being in accordance with the OECD STANDARD CODE.

Date of approval: 30th June 1993

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In this report all performance characteristics are given corresponding to the International System of Units.

The reference to the former used Technical System of Units is given by the following relations:

Forces	1	kN	=	1000	N	=	102 kp
Powers				1	kW	=	1,36 PS
Pressures	1	MPa	=	10	bar	=	10,2 kp/cm²
	100	kPa	=	1000	mbar	=	750,10 mm Hg

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Tractor manufacturer:	JI CASE GmbH D-41460 Neuss
Location of tractor assembly:	D-41460 Neuss
Submitted for test by:	Manufacturer
Selected by:	Manufacturer with agreement by DLG
Place of running-in:	Neuss and Groß-Umstadt
Duration of running-in:	Engine 50 hours, tractor 60 hours

SPECIFICATION OF TRACTOR

Tractor

Make:	CASE INTERNATIONAL
Trade name:	MAXXUM 5130 (4 WD), Series II, 40 km/h version
Type:	Wheel tractor, unit construction, four wheel driven
Serial no.:	JJF 102 1706
1st Serial no.:	JJF 100 0001

Engine

Make:	CASE
Model:	6-590
Type:	Watercooled 4 stroke Diesel-engine direct injection, naturally aspirated
Serial no.:	52 127 088
Cylinders:	6, in line, bore 102 mm, stroke 120 mm, displacement 5883 cm^3 compression ratio 17 ± 1 :1
Valves:	Overhead

Supercharging: None

Fuel system:	AC SPARK fuel supply pump, LUCAS-CAV distributor injection pump DPA F180, serial no.: 06242; manufacturer's production setting 54 + 2,5 mm³/stroke at full load and rated speed; automatic injection timing device, static injection timing at 12 ± 1° before TDC, 5° dynamic adjustment; LUCAS multihole injection nozzles 5-hole type, 680 1131; injection pressure 22,0+1 MPa; replaceable two-stage fuel filter, capacity of fuel tank 135 dm³; optional (fitted to tested tractor) 170 dm³
Governor:	LUCAS-CAV centrifugal variable speed governor; governed range of engine speed 900 ± 100 to 2384 ± 44 rev/min; rated engine speed 2200 rev/min
Air cleaner:	MANN 4433592114, optional DONALDSON; dry paper element filter with precleaner, replaceable cartridge; electric warning indicator lamp; air intake below bonnet
Exhaust silencer:	NELSON-BURGESS A 184 475; multi-chamber expansion reflection type, oval 266 x 139 mm, 517 mm long, below bonnet, vertical pipe on the left hand side; mouth showing forward-upwards, 2660 mm above ground
Lubrication system:	Forced feed by internal gear pump, oil filter in full flow with replaceable cartridge, engine oil/cooling-water heat exchanger in crankcase
Cooling system:	Water cooling with impeller pump, overpressure relief valve set to 96,5 ± 13,8 kPa; thermostat and by-pass circuit, fan with 7 blades with 450 mm dia, water capacity 22,0 dm³
Starting system:	Electrical; BOSCH solenoid pre engaged-drive starter motor 3,1 kW; cold starting aid: CAV flame plug in air intake channel

	Safety device: Range gear in neutral position, forward/reverse control in forward position, p.t.o. lever off
Electrical system:	12 Volt, negative earth; BOSCH 3-phase alternator K1-14 V/65 A 910 W; optional 95 A, 1330 W, fitted to tested tractor; 1 lead acid battery, 105 Ah at 20 hours rating (standard), optional 2 batteries, fitted to tested tractor, 105 Ah, total 210 Ah

Transmission

Clutch (travel alone):	CASE POCLAIN wet multi-plate clutch, 127 mm dia pedal operated or hydraulically controlled by forward-reverse lever
Gear box:	CASE POCLAIN, 40 km/h version; power shift speed change gear with 4 speeds; range gear with 4 synchronized ranges (I, II, III, IV); power shift reversing gear (F, R); in position reverse 3 ranges can be used; optional, but fitted to tested tractor: 1 collar shifted creeper range (CR), acting on 2 range gears (I, II), creeper range must not be used for heavy drawbar pull; total 24 forward and 20 reverse speeds, 4 levers; optionally available synchromesh speed change gear instead of power shift gearbox
Rear axle and final drives:	CASE POCLAIN, bevel gear drive; bevel gear differential with multiplate differential lock, electro-hydraulically engaged/disengaged by switch or disengaged at service brake operation or engine cutoff; planetary final drives
Front axle and final drives:	CARRARO 709/S2, optional 709/S4 driven by wet multi-plate clutch, propeller shaft (in tractor's median plane) and bevel gear; clutch operated by electro-hydraulic switch; limited slip differential; planetary final drives

Total ratios and speeds: See tables below and on page -8-

number of revolutions of front wheels for one revolution of rear wheels: 1.2894

Creeper Speeds

Range	Gear	Number of engine revolutions for one revolution of the driving wheels	Nominal travelling speed*) at rated engine speed 2200 rev/min km/h
Forward speeds			
I	1	1386,64	0,49
	2	1144,08	0,59
	3	926,19	0,73
	4	747,25	0,91
II	1	608,41	1,12
	2	501,98	1,35
	3	406,38	1,67
	4	327,87	2,07
Reverse speeds			
I	1	1166,81	0,58
	2	962,71	0,71
	3	779,35	0,87
	4	628,79	1,08
II	1	511,95	1,33
	2	422,40	1,61
	3	341,95	1,99
	4	275,89	2,47

*) calculated with the radius index (ISO 4251/1-1984) 820 mm

Normal speeds:

Range	Gear	Number of engine revolutions for one revolution of the driving wheels	Nominal travelling speed*) at rated engine speed 2200 rev/min km/h
Forward speeds			
I	1	255,09	2,67
	2	210,47	3,23
	3	170,38	3,99
	4	137,47	4,95
II	1	111,92	6,08
	2	92,35	7,36
	3	74,76	9,10
	4	60,32	11,28
III	1	68,08	9,99
	2	56,17	12,11
	3	45,47	14,96
	4	36,69	18,54
IV	1	33,56	20,26
	2	27,69	24,56
	3	22,42	30,34
	4	18,09	37,60
Reverse speeds			
I	1	214,65	3,17
	2	177,10	3,84
	3	143,37	4,74
	4	115,67	5,88
II	1	94,18	7,22
	2	77,71	8,75
	3	62,91	10,81
	4	50,75	13,40
III	1	57,28	11,87
	2	47,26	14,39
	3	38,26	17,77
	4	30,87	22,03

*) calculated with the radius index (ISO 4251/1-1984) 820 mm

Main p.t.o.: Independent;
driven by wet multi-plate clutch,
hydraulically operated by lever;
1 reversible shaft at tractor's rear.
2 speeds selectable by hand lever;
35 mm dia, 6 splines, ISO 500-1979 type 1 respectively
35 mm dia, 21 splines, ISO 500-1979 type 2;
725 mm above ground, 500 mm behind rear wheel centre,
in tractor's median plane;
sense of rotation clockwise, viewed facing tractor's rear

p.t.o. type	p.t.o. speed rev/min	engine speed rev/min	p.t.o. transmission ratio	Power restriction kW
540	540 634	1875 2200	3,4720	-
1000	1000 996	2209 2200	2,2095	-

Power lift

CASE POCLAIN
servohydraulic power lift, unit construction;
draft, position and intermixable control, floating position,
fast raising, lowering throttle, lower links' sensing

Hydraulic system:

Load sensing, pressure and flow compensated;
REXROTH variable displacement axial-piston pump
gear driven by gearbox,
max. delivery 75 dm^3/min at rated engine speed;
oil cooler in front of engine water cooler,
oil filter in feed line;

REXROTH control valve, (lever in transport position lockable),
relief valve pressure setting 19,1±0,5 MPa;
single acting cylinder with 105 mm bore and
227 mm stroke, safety valve set to 22,0 MPa;

2 double acting additional CASE control valves,
4 oil couplings at rear of tractor;
maximum volume of oil available to external cylinders:

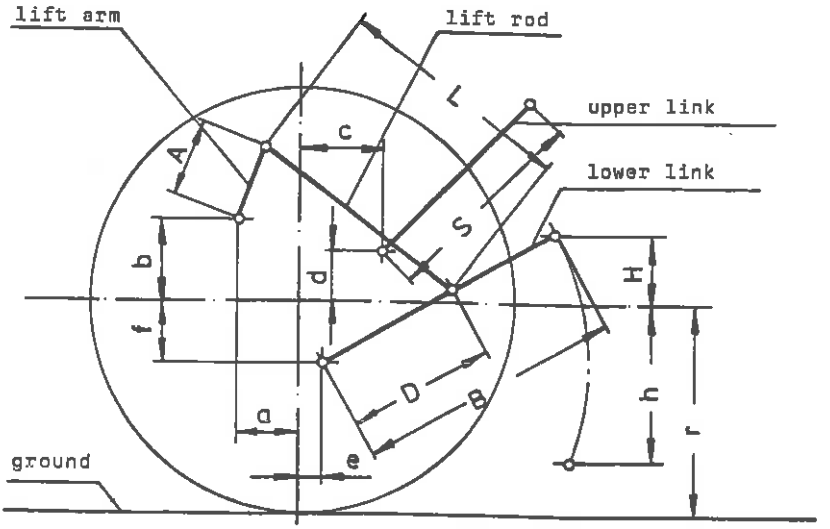
Stationary tractor operation on slopes
of no more than 2 degrees 30 dm^3

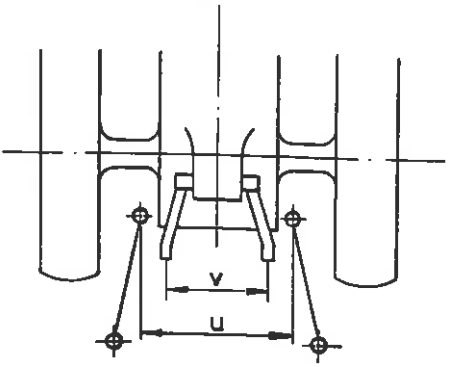
moving tractor operation on slopes
of no more than 15 degrees 20 dm^3
of no more than 30 degrees 12 dm^3

hydraulic oil reservoir in common with gearbox
with 76 dm^3 capacity (88 dm^3 capacity with increased oil level)

the hydraulic oil pump further provides
hydraulic pressure for actuating of steering,
p.t.o. clutch, power-shift gear and for shifting
the front axle drive clutch and the rear axle differential lock

Three-point linkage: Catergory 2 acc. to ISO 730/1-1990, with WALTERSCHEID quick couplers





Dimensions of rear implement linkage (projected lengths in mm, underlined dimensions are valid for power lift measurements p. 25)

Rear tyres 520/70 R 38	radius index *)	(r)	820
Front tyres 16.9 R 24	radius index *)	(r')	620
Length of lift arms		(A)	230
Length of lower links		(B)	877
Distance of lift arm pivot points from rear wheel centre	horizontal	(a)	-243
	vertical	(b)	181
Horizontal distance between lower link pivot points		(u)	543
Horizontal distance between lift arm end points		(v)	692
Length of upper link		(S)	610 to 880, <u>755</u>
Distance of upper link pivot point from rear wheel centre	horizontal	(c)	359
	vertical	(d)	<u>230</u> or 300
Distance of lower link pivot point from rear wheel centre	horizontal	(e)	231
	vertical	(f)	246
Distance of lower link pivot points from lift rod pivot points on lower links		(D)	555
Length of lift rods		(L)	520 to <u>660</u>

Height of lower link hitch points relative to rear wheels' centre line (situated 820 mm above ground), these data are valid for unloaded power lift:

Length of lift rods	(L)	520	<u>660</u>
Linkage distance of lift rods	(D)	555	
Lowest position	(h)	310	615
Highest position	(H)	290	90
Transport position	(H')	290	90

*) Assuming r resp. r'= tyre dynamic radius index of ISO 4251/1-1984

Pull equipment

Swinging drawbar:	Optionally availabe, not fitted	
Trailer hitch:	CRAMER KU 94002, automatical;	
	diameter of hitch pin	32 mm
	height above ground adjustable by one-hand quick adjustment to	420/ 525/ 610/ 755/ 830/ 890/ 960 or 1000 mm
	distance of hitch point from rear wheel centre line, horizontally	690 mm
	from p.t.o. shaft end vertically	
	above p.t.o.	30/105/165/235 or 275 mm
	below p.t.o.	115/200 or 305 mm
	horizontally	192 mm
	maximum vertical permissible load	20 kN
Holed drawbar:	Short bar,	
	length between joint balls	825 mm
	9 holes, 33 mm dia with 80 mm distance each,	
	thickness/width of the drawbar	30/80 mm
	height above ground: minimum	205 mm
	maximum	1110 mm
	horizontal distance to p.t.o. shaft end (lower links in horizontal positon)	608 mm
Towing hitch:	At front, height above ground	770 mm

Steering

EATON, Q/AMP LSR, optional
DANFOSS OSPC 160 LSR;
hydrostatic steering, connected by sequence valve to the hydraulic system of the tractor (see on page 10);
1 integrated WEBER ram (symmetrical design), 236 mm stroke, 75 mm bore and 42 mm dia of piston rod, directly acting on steering levers;
working pressure 17,2 MPa

Brakes

Service brake:	CASE POCLAIN pedal operated muscle power brake with hydraulic transmission, using oil of gearbox, acting on both axles, (front axle drive is automatically engaged during braking); oil-immersed disc brake with 1 ring-piston on each differential half shaft; disc diameter 300 mm; trailer braking take-off optional, fitted to tested tractor: single/dual line air brake
Parking brake:	Mechanical wet disc brake, operated by lever with ratchet; 2 lining discs with 141 mm dia each, situated on drive shaft of rear axle (in front of bevel-gear pair)
Steering brake:	Divided pedal of service brake for normal use locked together

Wheels

Front:	Driving and steering, 2 pneumatics
Rear:	Driving, 2 pneumatics
Wheelbase:	2585 mm
Track width:	At front 1630 mm up to 2230 mm, at rear 1730 mm up to 2230 mm, adjustable in steps of 100 mm each by adjustable gauge bowl wheels and by turning the wheels

Possible combinations of tyres sizes front/rear

Tyres sizes	
front	rear
13.6 R 24	18.4 R 30 13.6 R 38
380/70 R 24 14.9 R 24	18.4 R 30
14.9 R 24	16.9 R 34 480/70 R 34
420/70 R 24	16.9 R 34 480/70 R 34
16.9 R 24	18.4 R 34 520/70 R 34 16.9. R 38 480/70 R 38 520/70 R 38
14.9 R 26	18.4 R 34 520/70 R 34 16.9 R 38 480/70 R 38
11.2 R 28	18.4 R 30 16.9 R 34 13.6 R 38
12.4 R 28	18.4 R 30 16.9 R 34 480/70 R 34 18.4 R 34 13.6 R 38
13.6 R 28	18.4 R 34 520/70 R 34 16.9 R 38 480/70 R 38
380/70 R 28	18.4 R 34 520/70 R 34 16.9 R 38

Protective structure	CASE POCLAIN, cab model CX-94; OECD-tested driver's platform with integrated safety frame, OECD approval no. CSS 088/10; not tiltable, antivibration mounted by silent-blocks on tractor; 2 doors with 2 steps each, steps 610 and 895 mm, driver's platform 1180 mm above ground; rear window and rear side windows tiltable, roof hatch; air conditioner (optional, not fitted to tested tractor) and combined heating/ventilation system with 3-step blower and cooling-water heat exchanger incorporated in roof; air intake above rear window, dry air filter; air outlet jets in the roof at front and at rear, defroster nozzles;	
Noise reduction materials:		
Roof	Fabric, PUR-foam resin impregnated felt (molded part) PUR-foam	3,5 mm 7 mm 50 mm
Roof, front part	ABS-panel part	3 mm
Floor	Compound mat, consisting of: Synthetic heavy foil + PVC coated (molded) PE-foam or partially PE-chip foam with waterproof sealing	 5 mm 25 mm 22,5 mm
Seat support, on the surface and the front side	Compound mat, consisting of: Synthetic heavy foil + PVC coated (molded) PE-foam + waterproof sealing	 5 mm 25 mm

Console panel	Compound mat, consisting of: Synthetic heavy foil + PVC coated (molded) PE-foam	 5 mm 7 mm
Rear panel	ABS-panel part	3 mm
Mudguards	PVC-foil PUR-foam	3 mm 22 mm
B-posts	ABS-panel part	3 mm
Bulk head	PUR-heavy-foil PE-foam	6 mm up to 6 mm
Draught proofing	Rubber seals and Silicon	

Driver's seat: GRAMMER, LS 95/H 1 90
upholstered seat with back rest and arm rests, pneumatic suspension with automatic weight adjustment, hydraulic shock absorber;
height of unloaded seat above platform steplessly adjustable from 370 to 510 mm, longitudinal adjustment 150 mm

Operating hours meter: Electronic, counts real operating hours when engine is running

Lighting: Electrical, 12 Volt, acc. to German legislation

	Height above ground of centre mm	Size mm	Distance from outside edge of lights to median plane of tractor mm
Headlights	1395	160x80	290
Auxiliary lights	2580	135x80	465
Side lights	1820	110x65	817
Rearlights	1760	100x40	1040
Reflectors 1st pair 2nd pair	 1775 870	 80x40 80 dia	 1055 527

TEST CONDITIONS

Overall dimensions

Length mm	Width mm	Height at top of protective structure mm	Height at top of exhaust silencer pipe mm
4400	2385	2750	2730

Ground clearance: 365 mm below bracket of trailer hitch

Tractor mass (with cab)

	Without driver kg	With driver kg
Front	2000	2010
Rear	3120	3185
Total	5120	5195

Tyres and track widths specifications

	Front	Rear
Tyres:	KLEBER SUPER 8	PIRELLI TM 700
dimensions	16.9 R 24	520/70 R 38
load index speed index	134 A8	150 A8
type	radial ply	radial ply
maximum load (tyre manufacturer's) 40 km/h	21,2 kN	33,6 kN
maximum load (tyre manufacturer's) 30 km/h	22,7 kN	36,0 kN
inflation pressure	160 kPa	160 kPa
radius index	620 mm	820 mm
Chosen track width:	1830 mm	1830 mm
Rims:	LW 15Lx24	DW 15x38
Technically permissible axle load:	31 kN	60 kN
Technically permissible total weight:	83 kN	

Oils and lubrication

Capacity and change interval:

	Capacity dm³	Oil change h	Filter change h
Engine	14,3	250	250
Gearbox, hydraulic system, rear axle and final drives	76,0	1000	1000
Front axle	6,5		-
Final drives (front)	2x1,0		

Specification:

	Recommended	Used during test
Engine oil: used in: Engine Type Viscosity Winter Summer Tropics Classification	 Engine oil SAE 10W/30 SAE 15W/40 or 10W/30 SAE 15W/40 API SF-CD or MIL-L 2104 C	 FINA SAE 10W/30 API-CD
Transmission oil used in: gearbox with rear axle incl. final drives, hydraulic-, steering- and braking-system Type Viscosity Classification Front axle incl. final drives Type Viscosity Classification	 HY-TRAN PLUS ISO-VG 95-115 MS 1207*) Gear oil SAE 85W/140 MS 1316*)	 FINA HYTRAN-PLUS ISO-VG 95-115 MS 1207*) FINA SAE 85W/140 MS 1316*)

*) MS = CASE material specification

Grease:	Multi purpose grease number of lubrication points 9	

Fuel

Type:	ARAL Diesel-fuel in conformity with DIN 51601	
Density at 15 °C:	At p.t.o. test	0,835 g/cm³
	at drawbar power test	0,830 g/cm³

COMPULSORY TESTS

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

Date of tests: 5th November 1992
Location of tests: DLG-Testing Station Groß-Umstadt
Type of dynamometer: SCHENCK hydraulic dynamometer U1-40

Power kW	Speed Engine rev/min	Speed P.t.o. rev/min	Fuel consumption hourly l/h	Fuel consumption hourly kg/h	Fuel consumption specific g/kWh	Specific energy kWh/l
Maximum power						
1.1 At 2-hour test						
69,7	2000	905	21,62	18,05	259	3,22
1.2 At rated speed						
66,8	2200	996	21,45	17,91	268	3,11
1.3 At standard p.t.o. speed						
66,8	2200	996	21,45	17,91	268	3,11
1.4 Part loads, the governor hand lever in the position corresponding to maximum power at full load (curve a)						
1.4.1 the torque corresponding to maximum power at rated speed						
66,8	2200	996	21,45	17,91	268	3,11
1.4.2 85% of the torque obtained in 1.4.1						
59,8	2317	1049	20,02	16,71	279	2,99
1.4.3 75% of the torque defined in 1.4.2						
45,4	2340	1059	16,38	13,68	301	2,77
1.4.4 50% of the torque defined in 1.4.2						
30,5	2364	1070	13,23	11,04	362	2,31
1.4.5 25% of the torque defined in 1.4.2						
15,4	2381	1078	9,98	8,33	542	1,54
1.4.6 unloaded						
-	2404	1088	7,95	6,64	-	-

Power kW	Speed Engine rev/min	Speed P.t.o. rev/min	Fuel consumption hourly l/h	Fuel consumption hourly kg/h	Fuel consumption specific g/kWh	Specific energy kWh/l
1.5 Part loads, the governor hand lever in the position corresponding to the standard p.t.o. speed at full load (curve b)						
1.5.1 the torque corresponding to maximum power						
66,8	2200	996	21,45	17,91	268	3,11
1.5.2 85% of the torque obtained in 1.5.1						
59,8	2317	1049	20,02	16,71	279	2,99
1.5.3 75% of the torque defined in 1.5.2						
45,3	2340	1059	16,38	13,68	302	2,77
1.5.4 50% of the torque defined in 1.5.2						
30,5	2364	1070	13,23	11,04	362	2,31
1.5.5 25% of the torque defined in 1.5.2						
15,4	2381	1078	9,98	8,33	542	1,54
1.5.6 unloaded						
-	2404	1088	7,95	6,64	-	-

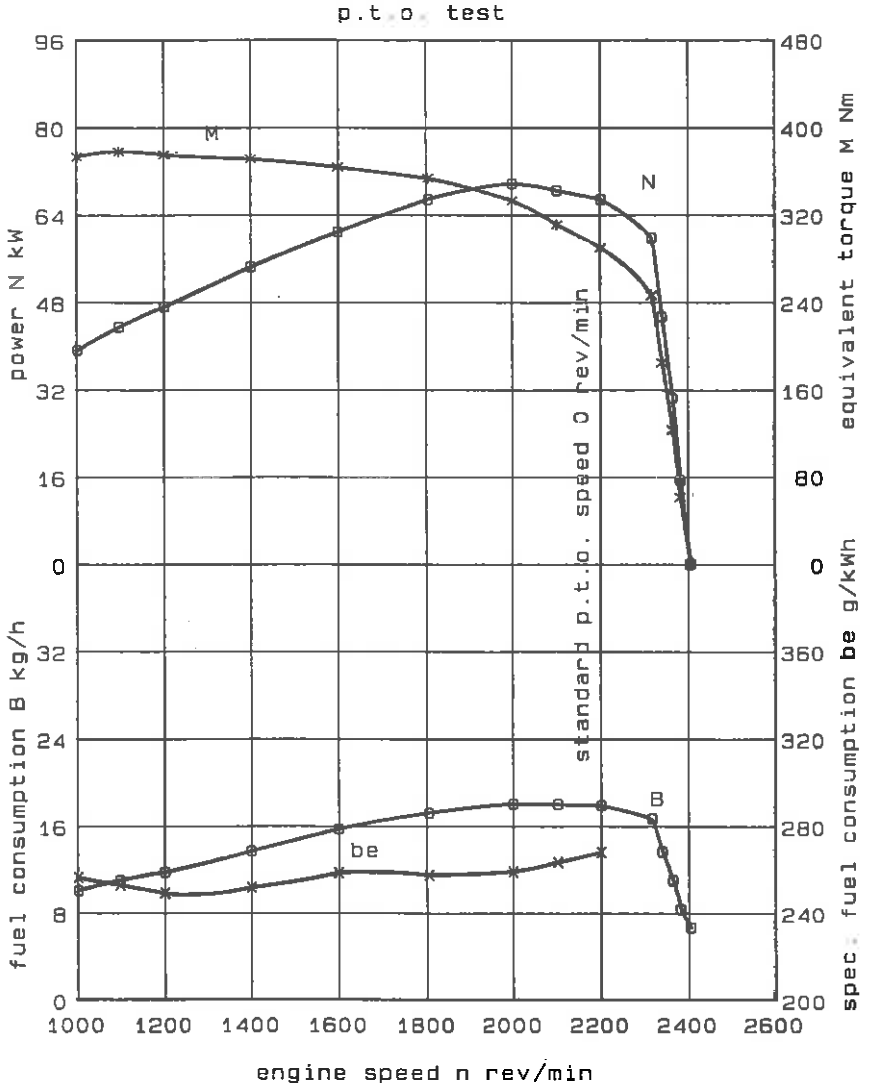
No load maximum engine speed: 2404 rev/min
Equivalent flywheel torque at rated engine speed: 290 Nm
Equivalent flywheel torque at 2-hour test: 333 Nm
Maximum equivalent flywheel torque: 378 Nm at 1098 rev/min of the engine

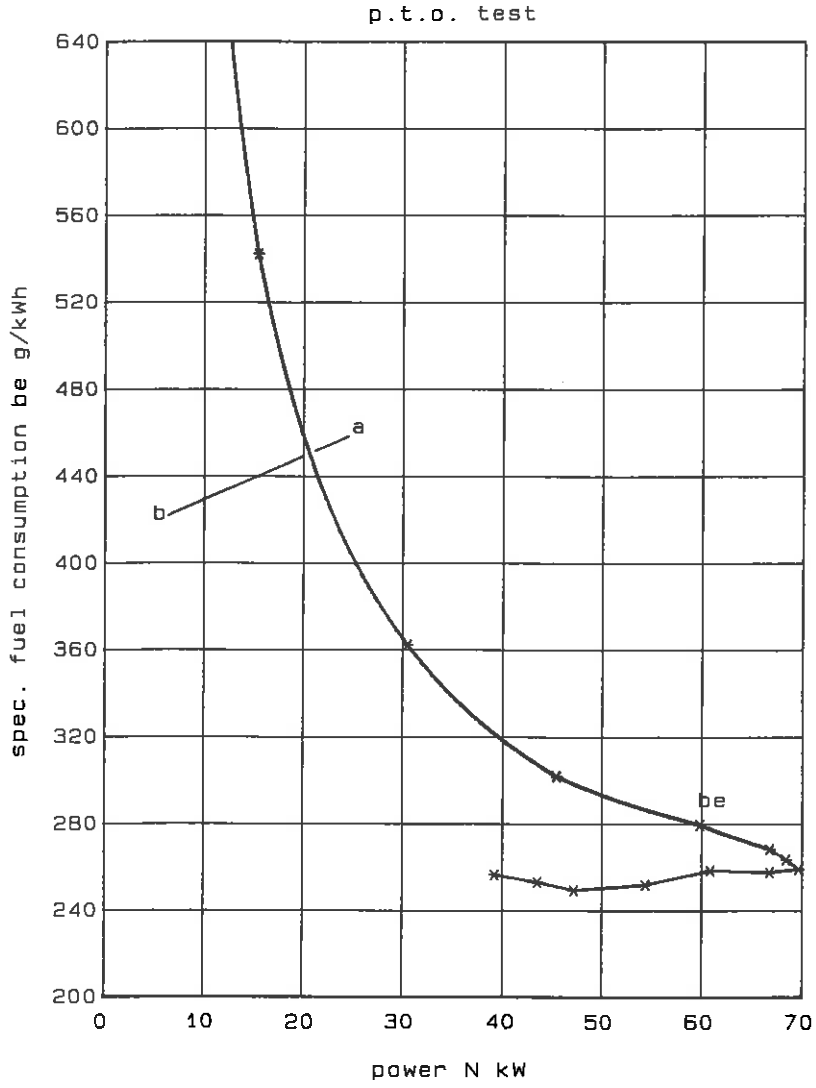
Mean atmospheric conditions

temperature	21 °C
pressure	101 kPa
rel. humidity	35 %

Maximum temperatures

coolant	85 °C
oil	108 °C
fuel	25 °C
air intake	25 °C


p.t.o. test
power N kW
equivalent torque M Nm
fuel consumption B kg/h
spec. fuel consumption be g/kWh
standard p.t.o. speed 0 rev/min
engine speed n rev/min
M
N
B
be
96
80
64
48
32
16
0
480
400
320
240
160
80
0
360
320
280
240
200
24
8
1000
1200
1400
1600
1800
2000
2200
2400
2600


p.t.o. test
spec. fuel consumption be g/kWh
640
600
560
520
480
440
400
360
320
280
240
200
0
10
20
30
40
50
60
70
power N kW
a
b
be

2 HYDRAULIC POWER AND LIFTING FORCE

Date of tests: 14th and 25th January 1993

2.1 Hydraulic power test

Sustained pressure with relief valve open 19,3 MPa
Pump delivery rate at minimum pressure 74,5 l/min

	Hydraulic power kW	Flow rate l/min	Pressure MPa	Oil temperature °C
At 90% of the actual relief valve setting	12,1	41,8	17,4	65
At max. power	17,1	66,1	15,5	65

Tapping point used for test: At rear of tractor, connected with additional control valve no. 2

2.2 Power lift test

Maximum pressure in the power lift cylinder 18,5 MPa

	At the hitch point	On the frame
Height of lower hitch points above ground in down position	205 mm	
Vertical movement without lifting forces	705 mm	850 mm
Vertical movement with lifting forces	675 mm	800 mm
Max. corrected force exerted through full range	37,2 kN	32,2 kN
Corresponding pressure	16,7 MPa	
Moment about rear axle	-	55,3 kNm
Max. tilt angle of mast from vertical	-	9 °

Lifting heights relative to horizontal lower links

mm	-435	-400	-367	-300	-200	-100	0	+100	+200	+300	+308	+365
Lifting forces at hitch points, corrected to 16,7 MPa												
kN			37,2	41,7	43,9	44,8	44,8	43,7	43,2	41,3	41,2	
Lifting forces at standard frame, corrected to 16,7 MPa												
kN	34,5	36,0		38,5	39,3	39,2	38,3	36,7	34,9	33,3		32,2

3 DRAWBAR POWER AND FUEL CONSUMPTION
Date of test: 1st and 2nd March 1993
Type of track: Concrete

Gear and range	Speed km/h	Drawbar pull kN	Power kW	Engine speed rev/min	Slip of wheels %
3.1 MAXIMUM POWER IN TESTED GEARS					
2 I	2,91	53,71	43,4	2307	15,0
3 I	3,39	54,16	51,0	2172	15,1
4 I	4,06	49,95	56,3	1997	10,7
1 II	5,16	40,48	58,0	2004	7,7
2 II	6,36	32,34	57,1	2003	6,2
3 II	7,94	25,71	56,7	2002	4,9
1 III	8,75	23,14	56,2	2004	4,6
4 II	9,91	19,86	54,7	1997	3,9
3.2 FUEL CONSUMPTION					
3.2.1 gear with max. drawbar power (at rated speed)					
1 II	5,74	34,45	54,9	2201	6,5
3.2.1.1 75 % of pull at maximum power at rated speed					
1 II	6,15	25,85	44,2	2322	5,1
3.2.1.2 50 % of pull at maximum power at rated speed					
1 II	6,31	17,24	30,2	2344	3,6
3.2.1.3 next higher gear at reduced engine speed; same pull and and travelling speed					
2 II	6,17	25,84	44,3	1918	4,9
3.2.1.4 next higher gear at reduced engine speed; same pull and travelling speed					
2 II	6,317	17,27	30,3	1931	3,4
3.2.2 in selected gear, nearest to 7,5 km/h (at rated speed)					
2 II	7,04	27,58	53,9	2196	5,3
3.2.2.1 75 % of pull at maximum power at rated speed					
2 II	7,50	20,61	42,9	2311	4,1
3.2.2.2 50 % of pull at maximum power at rated speed					
2 II	7,70	13,75	29,4	2342	2,8
3.2.2.3 next higher gear at reduced engine speed; same pull and travelling speed					
3 II	7,60	20,66	43,6	1897	4,0
3.2.2.4 next higher gear at reduced engine speed; same pull and travelling speed					
3 II	7,75	13,70	29,5	1907	2,6

Height of drawbar above ground	Tyre inflation pressure Front	Rear
510 mm	80 kPa	80 kPa

Specific fuel consumption g/kWh	Specific energy kWh/l	Temperatures Fuel °C	Coolant °C	Engine oil °C	Atmospheric conditions Tempe-rature °C	Relative humidity %	Pressure kPa
374	2,22	20	79	85	6	72	99,4
351	2,36	35	79	85	4	75	99,5
323	2,57	35	79	85	4	74	99,4
312	2,66	35	80	83	4	75	99,5
319	2,60	34	80	87	4	63	99,4
321	2,59	35	80	84	4	65	99,4
323	2,57	35	80	85	4	70	99,4
332	2,50	35	80	85	4	70	99,5
328	2,53	25	79	90	4	73	99,5
352	2,36	25	79	90	4	73	99,5
418	1,99	25	79	90	4	73	99,5
as in 3.2.1.1							
317	2,61	30	79	90	4	73	99,5
as in 3.2.1.2							
360	2,30	30	79	89	6	65	99,8
333	2,49	25	79	86	6	65	99,8
362	2,29	25	79	86	6	65	99,8
431	1,92	25	79	86	6	65	99,8
as in 3.2.2.1							
328	2,53	30	79	86	6	65	99,8
as in 3.2.2.2							
379	2,19	30	79	90	6	65	99,8

4 REPAIRS None

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