Report on test in accordance with OECD STANDARD CODE

Restricted Code

OECD No. 1155



Agricultural Tractor
JOHN DEERE 2155 TSS (4WD)

Manufacturer

John Deere Werke Mannheim
D-6800 Mannheim

Deutsche Landwirtschafts-Gesellschaft e.V.
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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|).

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

Duration of tests: March till June 1988
DLG-Testing-Station for Agricultural Machinery, Max-Eyth-Weg 1,
D-6114 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: 13th September 1988

OECD No. 1155
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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/cm^2
	100 kPa	=	1000 mbar	=	750,10 mm Hg

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PRÜFUNGS-ABTEILUNG
JOHN DEERE 2155 TSS

Test No. 88-44

Tractor manufacturer:	John Deere Werke Mannheim D-6800 Mannheim
Location of tractor assembly:	D-6800 Mannheim
Submitted for test by:	Manufacturer
Selected by:	Manufacturer with agreement by DLG
Place of running-in:	Mannheim and Groß-Umstadt
Duration of running-in:	Engine appr. 50 hours tractor appr. 20 hours

SPECIFICATION OF TRACTOR

Tractor

Make:	JOHN DEERE
Trade denomination:	2155 TSS
Type:	Wheel tractor, unit construction, 4WD
Serial No.:	623 441
Start of series:	600 001

Engine

Make:	JOHN DEERE
Model:	3.179 DL 017
Type:	Watercooled 4-stroke Diesel engine with direct injection, naturally aspirated
Serial No.:	CD 3.179 D 760 240
Cylinders:	3, vertical in line, bore 106,5 mm, stroke 110 mm, displacement 2940 cm³; compression ratio 17,8:1; wet cylinder liners, replaceable
Valves:	Overhead
Fuel system:	SOFABEX fuel supply pump; LUCAS-CAV distributor pump RE 26992/R 3439 F030, serial no. 01730 BFG, with injection timing device; manufacturer's production setting 53±2 mm³ per stroke at rated engine speed and full load; injection timing 13±7° before TDC; STANADYNE multihole injection nozzles 27333, injection pressure 21,0±0,3 MPa; STANADYNE fuel filter with replaceable two-stage paper element; fule tank with 67 dm³ capacity

Governor:	LUCAS-CAV centrifugal variable speed governor, governed range of engine speed 800 to 2500 rev/min, rated engine speed 2300 rev/min
Air cleaner:	Cyclone precleaner, incorporated in main cleaner, PUROLATOR dry paper element filter with main cartridge and safety cartridge; maintenance indicator lamp; air intake below bonnet
Lubrication system:	Forced-feed lubrication with gear pump, PUROLATOR oil filter T 19044 in full flow, replaceable; engine oil-cooling water heat exchanger between oil filter and filter socket
Cooling system:	Water cooling with impeller pump, overpressure relief valve set to 60+1 kPa, cooling circuit with thermostat and by-pass; V-belt driven fan, 422 mm dia, 6 blades; water capacity 10 dm^3
Starting system:	Electrical; BOSCH solenoid pre-engaged-drive starting motor 2,7 kW; BERU heating spiral in intake pipe; range gear shift lever in neutral position as safety device
Exhaust silencer:	EBERSPÄCHER, AL 56016 multi-chamber absorption-expansion type, 160x245 mm oval, 378 mm long, below bonnet; vertical pipe, mouth showing upwards to the left, 2490 mm above ground

Electrical equipment:	12 Volt, negative earth, BOSCH 3-phase alternator K1-14V 23/55 A, 770 W; 2 lead acid batteries, 55 Ah each at 20 hours rating

Transmission

Clutch:	F & S, AL 39123, dry single-plate, for travel drive, 280 mm dia, mechanically actuated by pedal
Gear box:	JOHN DEERE, model TSS; synchromesh speed change gear with 4 speeds; collar shifted range gear with 2 forward ranges (I and II) and 1 reverse range (R); power-shifted planetary gear with 2 ranges (HI and LO), total 16 forward and 8 reverse speeds; 3 shift levers
Rear axle with final drives:	JOHN DEERE, bevel gear, bevel gear differential with hand lever or pedal operated lock, self-disengaging; planetary final drives
Front axle with final drives:	ZF, model APL-315, driven by universal joint shaft to central bevel gear drive; oil-immersed multi-disc clutch, electrically-hydraulically shiftable by switch; bevel gear drive; multi-disc limited-slip differential; planetary final drives
Lubrication:	Gear box, rear axle, rear final drives and hydraulic system have oil in common; transmission with pressure lubrication, internal-gear pump within gear box, 2 oil filters; oil radiator in front of water radiator

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Total ratios and speeds

Range		Gear	Total ratio engine : driving wheel	Nominal travelling speed*) at rated engine speed km/h
I	LO	1	322,28	1,80
		2	214,85	2,70
		3	139,45	4,17
		4	96,52	6,02
	HI	1	253,22	2,29
		2	168,81	3,44
		3	109,56	5,30
		4	75,83	7,66
II	LO	1	88,24	6,58
		2	58,83	9,88
		3	38,18	15,22
		4	26,43	21,98
	HI	1	69,33	8,38
		2	46,22	12,57
		3	30,00	19,36
		4	20,76	27,98
R	LO	1	203,05	2,86
		2	135,36	4,29
		3	87,86	6,61
		4	60,81	9,55
	HI	1	159,54	3,64
		2	106,36	5,46
		3	69,03	8,42
		4	47,78	12,16

*) calculated with the radius index 670 mm

Number of revolutions of front wheels for one revolution of rear wheels: 1,4298

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Main p.t.o.

Independent,
driven by wet multi-plate clutch
with 133 mm dia, hydraulically operated
by lever and control valve, hydraulically
operating p.t.o. brake;
1 p.t.o. shaft at rear of tractor,
599 mm above ground, 25 mm to the
left of tractor's median plane;
direction of rotation clockwise,
viewed facing tractor's rear;
p.t.o. 422 mm behind rear wheel
centre line,
35 mm dia, 6 splines, ISO 500 type 1-1979

P.t.o. type	P.t.o. speed rev/min	Engine speed rev/min	Ratio engine : P.t.o.	Power restriction kW
540	540 599	2075 2300	3,8421	-

Power lift

JOHN DEERE
hydraulic power lift, unit construction;
draft- and position-control, both mixable
in steps, floating position;
lowering throttle; lower link sensing

Hydraulic system:

Closed centre system;
JOHN DEERE RP 2023 COE 0100
variable-capacity radial-piston pump,
directly driven by front end of engine
crankshaft feeds power lift and
steering system, max. delivery 48 l/min
at rated engine speed;
the transmission oil pump (see page 6)
offers hydraulic pressure for actuating
of p.t.o. clutch, front axle drive
clutch, power shifted range gear and
feeds the radial-piston pump

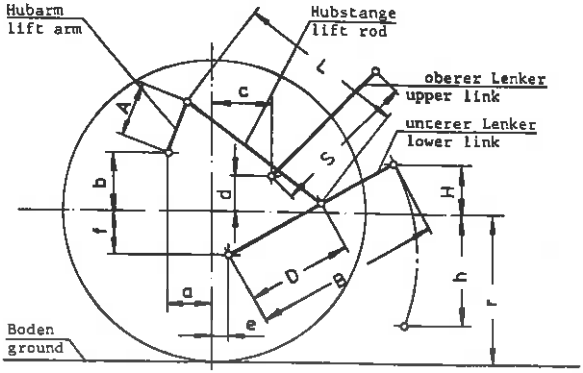
JOHN DEERE control valve,
relief valve pressure setting
16,0+0,3 MPa;
single acting cylinder with 133 mm
stroke and 92 mm bore;
safety valve set to 23,0 MPa

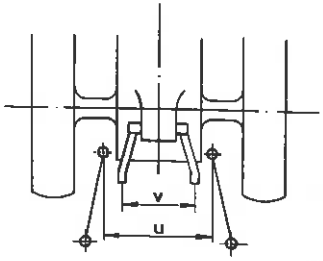
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JOHN DEERE 2155 TSS

Test No. 88-44

1 double acting JOHN DEERE additional control valve with 2 couplings at tractor's rear;
up to 10 dm³ oil may be taken off working travelling and 14 dm³ stationary

Implement linkage: 3-point linkage, cat. 2 acc. to ISO 730/I-1977,
cat. 1 is possible by turning the lower links





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Dimensions of rear implement linkage (projected lengths in mm, underlined dimensions are valid for power lift measurements p. 21)

Rear tyres	radius index	(r)	670
Front tyres	radius index	(r')	495
Length of lift arms		(A)	254
Length of lower links		(B)	830
Distance of lift arm pivot points from rear wheel centre	horizontal	(a)	-7
	vertical	(b)	277
Horizontal distance between lower link pivot points		(u)	395
Horizontal distance between lift arm end points		(v)	495
Length of upper link		(S)	540 to 780, <u>625</u>
Distance of upper link pivot point from rear wheel centre	horizontal	(c)	321
	vertical	(d)	163
Distance of lower link pivot point from rear wheel centre	horizontal	(e)	115
	vertical	(f)	200
Distance of lower link pivot points from lift rod pivot points on lower links		(D)	445
Length of lift rods		(L)	608 to 726, <u>700</u>

Height of lower link hitch points relative to rear wheel centre line (situated 670 mm above ground), these data are valid for unloaded power lift:

Length of lift rods	(L)	<u>700</u>	608	726
Linkage distance of lift rods	(D)	445		
Lowest position	(h)	470	252	532
Highest position	(H)	165	317	125
Transport position	(H')	165	317	125

Type of transport lock: Lowering throttle and latching of control valve lever

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Pull attachments

Trailer hitch:	Not fitted	
Holed drawbar:	Not fitted	
Swinging drawbar:	Shiftable, height above ground	437 mm
	pivot point before rear wheel centre line	51 mm
	hitch point behind rear wheel centre line	634, 782 or 824 mm
	behind p.t.o. shaft	212, 360 or 402 mm
	swingable to both sides about max.	290 mm
	hitch hole diameter	33 mm
	max. permissible vertical load (fully retracted)	10 kN
Towing hitch:	Not fitted	

Steering

JOHN DEERE, model POWER STEERING,
mechanically acting, hydraulically assisted;
connected by sequence valve to the hydraulic system of the tractor;
max. working pressure 16±0,3 MPa

Brakes

Service brake:	JOHN DEERE pedal operated muscle power brake with hydraulic transmission, using oil from gear box, acting on rear wheels; oil-immersed disc brake with 1 ring-piston on each differential half shaft, self readjusting; disc diameter 304 mm
Parking brake:	Mechanical wet V-band brake, acting on bevel wheel of differential, drum diameter 238mm, width 20 mm, operated by lever with ratchet
Steering brake:	Divided pedal of service brake, for normal use locked together
Trailer braking take-off:	None

Wheels

Steered wheels:	At front, 2 pneumatics 9.5-24, rims W8x24
Driving wheels:	At front and at rear, at rear: 2 pneumatics 16.9-28, rims W14Lx28
Wheelbase:	2057 mm
Track widths:	At front: 1420, 1500, 1640, 1720, 1800, 1880 mm, adjustable-gauge bowl wheels, at rear: adjustable from 1500 to 2000 mm in steps of 100 mm each by adjustable-gauge bowl wheels

Permissible tyre combinations:

Tyre size	
at front	at rear
8.3-24	14.9-28
9.5-24	16.9-28
10.5/80-18	14.9-24 16.9-24 17.5L-24
11.2-24	16.9-30

Protective structure

JOHN DEERE
2-post frame, model ROLL-GARD,
not OECD-tested

Seat

GRAMMER, DS 44/2H-4
upholstered seat with back rest
and integral arm rests, adjustable
spring suspension and hydraulic
shock absorber;
driver's platform 730 mm above ground,
height of unloaded seat above platform
steplessly adjustable from 540 to
650 mm, longitudinal adjustment 158 mm;
1 step, 460 mm above ground

Running-time meter

Electronic, counts real operating
hours when engine is running

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Lighting — Electrical, 12 Volt, as per US legislation

	Dimensions mm	Height above ground of centre mm	Distance from outside edge to median plane of tractor mm
Headlights	100 dia	1475	538
Side-(Warning) lights	100 dia	1513	644
Rearlights *)	100 dia	1250	391
Reflectors (ring shaped)	135/100 dia	1513	659

additional SMV-sign

*) only 1 rearlight on the left hand side

TEST CONDITIONS

Overall dimensions

Length: 3560 mm

Width: 2015 mm

Height: 2290 mm to top of protective frame
2490 mm to exhaust pipe mouth

Ground clearance: 365 mm below lower links stabilizers

Tractor mass

	Without driver kg	With driver kg
At front:	1035	1045
At rear:	1610	1665
Total	2645	2710

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Tyres and track widths specifications

	Front	Rear
Tyres:	GOODYEAR	GOODYEAR
dimensions	9.5-24	16.9-28
type	cross-ply	cross-ply
ply rating	6	6
maximum load	940 kg	1840 kg
inflation pressure	210 kPa	130 kPa
radius index	495 mm	670 mm
Chosen track width:	1420 mm	1600 mm

Oils and lubrication

Capacity and change interval:

	Capacity dm^3	Oil change h	Filter change h
Engine	6	200	200
Gear box with rear axle, rear final drives, hydraulic and steering system	46	1200	600 (2 filters)
Front axle	4,6	1200	-
Front final drives	2x0,75	1200	-

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Specifications:

	Recommended	Used during test
Engine oil:		
Type	engine oil	FUCHS TITAN UNIVERSAL
viscosity		
winter	SAE 10W/30	
summer	SAE 15W/40	SAE 15W/40
tropics	SAE 20W/40 or SAE 40	
classification	API-CD MIL-L-2104 C	API-CD
Transmission oils: Gear box with rear axle, rear final drive, hydraulic and steering system		
type	special oil	FUCHS RENOGEAR
viscosity	SAE 75	SAE 75
classification	JD specif. J20A	J20A
front axle and front final drives		
type	gear oil	FUCHS RENOGEAR HYPOID
viscosity	SAE 90	SAE 90
classification	API-GL5 MIL-L-2105 B or 2105 C	API-GL 5

Grease: Multi purpose grease
number of lubrication points: 19

Fuel

type: ARAL Diesel-fuel in conformity with DIN 51601
density: at 15°C at p.t.o.-tests 0,831 g/cm³
at drawbar power tests 0,819 g/cm³

REPAIRS None

REMARKS None

PRÜFUNGS-ABTEILUNG
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COMPULSORY TESTS

1. MAIN POWER TAKE OFF PERFORMANCE (540 rev/min)

Date of tests: 21st March 1988
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						
34,8	2200	573	10,97	9,12	262	3,17
1.2 At rated speed						
34,4	2300	599	11,05	9,19	267	3,12
1.3 At standard p.t.o. speed						
34,0	2075	540	10,51	8,73	257	3,23
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						
34,4	2300	599	11,05	9,19	267	3,12
1.4.2 85% of the torque obtained in 1.4.1						
30,3	2378	619	10,16	8,44	279	2,98
1.4.3 75% of the torque defined in 1.4.2						
23,1	2418	629	8,52	7,08	307	2,71
1.4.4 50% of the torque defined in 1.4.2						
15,5	2437	634	6,95	5,77	373	2,23
1.4.5 25% of the torque defined in 1.4.2						
7,8	2464	641	5,51	4,58	584	1,42
1.4.6 unloaded						
-	2486	647	4,07	3,38	-	-

PRÜFUNGS-ABTEILUNG

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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						
34,0	2075	540	10,51	8,73	257	3,23
1.5.2 85% of the torque obtained in 1.5.1						
30,1	2160	562	9,64	8,01	266	3,12
1.5.3 75% of the torque defined in 1.5.2						
23,0	2200	573	7,95	6,61	288	2,89
1.5.4 50% of the torque defined in 1.5.2						
15,6	2234	582	6,40	5,32	342	2,43
1.5.5 25% of the torque defined in 1.5.2						
7,9	2266	590	5,02	4,17	529	1,57
1.5.6 unloaded						
-	2287	595	3,53	2,94	-	-

No load maximum engine speed: 2486 rev/m
Equivalent flywheel torque at rated engine speed: 143 Nm; at 2-hour test: 151 Nm
Maximum equivalent flywheel torque: 176 Nm at 1494 rev/min of the engine

Mean atmospheric conditions

temperature	20 °C
pressure	99 kPa
rel. humidity	26 %

Maximum temperatures

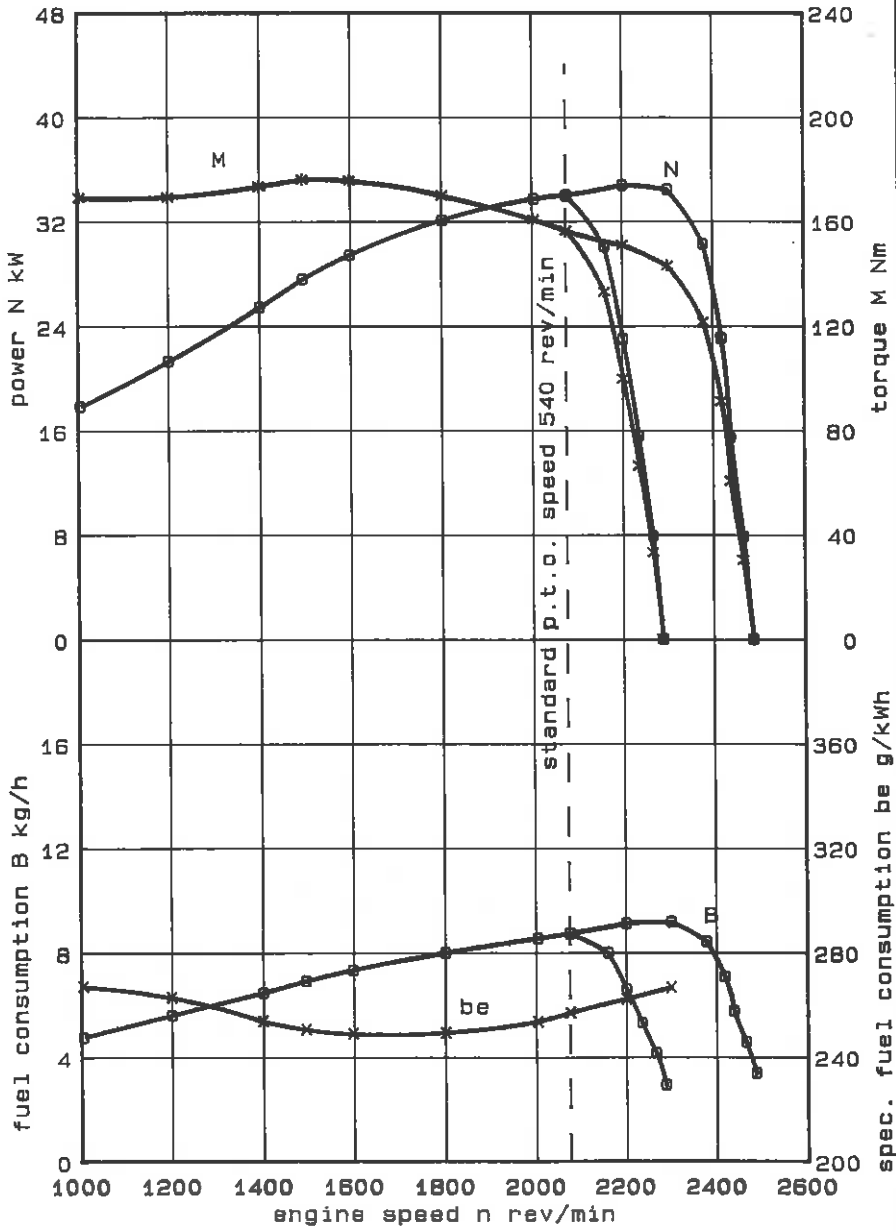
coolant	85 °C
oil	116 °C
fuel	20 °C
air intake	21 °C

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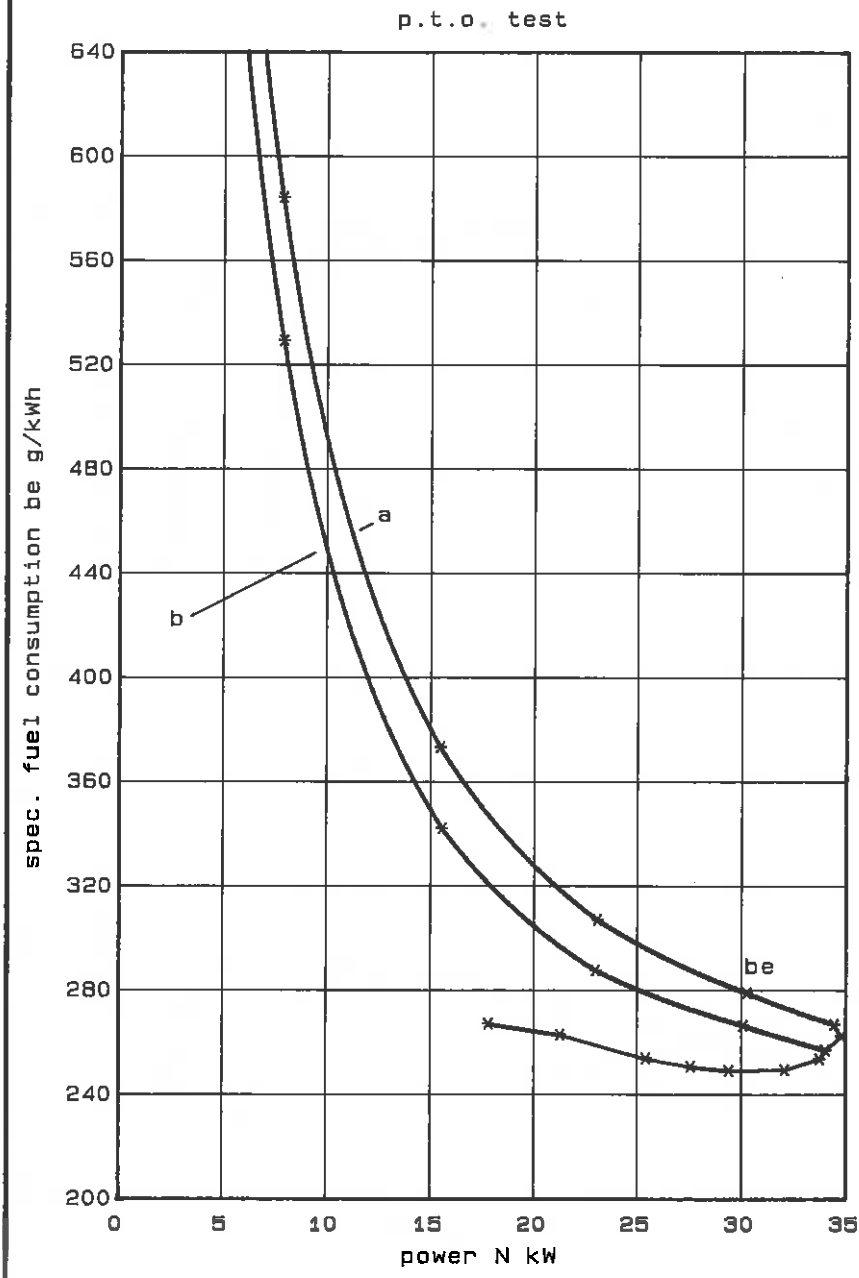
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2 HYDRAULIC POWER AND LIFTING FORCE

Date of tests: 6th June 1988

2.1 Hydraulic power test

Sustained pressure with relief valve open (pump stalled) 16,0 MPa
Pump delivery rate at minimum pressure 52,9 l/min

	Hydraulic power kW	Flow rate l/min	Pressure MPa	Oil temperature °C
At 90% of the actual relief valve setting	6,5	27,0	14,4	65
At maximum power	10,9	50,2	13,0	65

Tapping point used for test: At rear of tractor
Return point: At gear oil filter housing, supply into pressure line of gear oil pump

2.2 Power lift test

	At the hitch point	On the frame
Height of lower hitch points above ground in down position	200 mm	200 mm
Vertical movement	620 mm	782 mm
Max. corrected force exerted through full range	10,7 kN	9,9 kN
Corresponding pressure	13,0 MPa	13,0 MPa
Moment about rear axle	-	15,4 kNm
Max.tilt angle of mast from vertical	-	14,0°

Lifting heights relative to horizontal lower links

mm	-307	-300	-270	-200	-100	0	+100	+200	+300	+350	+400	+475

Lifting forces at hitch points, corrected to 13,0 MPa

kN			10,7	12,3	14,5	16,1	17,3	18,5	19,3	19,7		

Lifting forces at standard frame, corrected to 13,0 MPa

kN	9,9	10,1		11,5	12,5	12,9	13,5	13,5	13,5		12,9	12,3

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3 DRAWBAR POWER AND FUEL CONSUMPTION (unballasted tractor)

Date of tests: 26th and 27th May 1988
Type of track: Concrete
Height of drawbar above ground: 430 mm

Gear	Driving speed km/h	Power kW	Drawbar pull kN	Engine speed rev/min	Slip of wheels %
3.1 MAXIMUM POWER IN TESTED GEARS					
2 I HI	3,08	21,3	24,93	2378	14,9
3 I LO	3,63	25,2	25,03	2321	15,0
3 I HI	4,48	26,5	21,28	2198	12,8
4 I LO	5,21	27,1	18,76	2202	11,3
1 II LO	5,75	27,6	17,31	2202	10,1
4 I HI	6,83	27,4	14,44	2202	8,4
1 II HI	7,51	27,9	13,39	2198	7,9
2 II LO	9,02	27,6	11,03	2202	6,2
3.2 FUEL CONSUMPTION					
3.2.1 In selected gear at maximum power					
1 II HI	7,51	27,9	13,39	2198	7,9
3.2.1.1 75% of pull at maximum power					
1 II HI	8,21	22,8	9,98	2348	5,8
3.2.1.2 50% of pull at maximum power					
1 II HI	8,52	15,8	6,68	2386	3,8
3.2.1.3 Next higher gear at reduced engine speed; same pull and					
2 II LO	8,16	22,8	10,05	1983	5,7
3.2.1.4 Next higher gear at reduced engine speed; same pull and					
2 II LO	8,55	15,8	6,66	2036	3,8
3.2.2 In selected gear nearest to 7,5 km/h					
4 I HI	6,83	27,4	14,44	2202	8,4
3.2.2.1 75% of pull at maximum power					
4 I HI	7,37	22,3	10,89	2321	6,3
3.2.2.2 50% of pull at maximum power					
4 I HI	7,68	15,4	7,24	2363	4,1
3.2.2.3 Next higher gear at reduced engine speed; same pull and					
1 II HI	7,38	22,2	10,83	2121	6,3
3.2.2.4 Next higher gear at reduced engine speed; same pull and					
1 II HI	7,75	15,4	7,15	2175	4,0

PRÜFUNGS-ABTEILUNG

Test No. 88-44

Tyre size front: 9.5-24
rear: 16.9-28

Tyre inflation pressure 80 kPa at front and 80 kPa at rear

Specific fuel consumpt. g/kWh	Specific energy kWh/l	Temperatures Fuel °C	Coolant °C	Engine-oil °C	Atmospheric conditions Tempe-rature °C	Relative humidity %	Pressure kPa
378	2,17	24	82	96	22	83	98,9
354	2,31	25	84	99	23	76	99,4
344	2,38	24	85	101	22	75	99,4
334	2,45	25	85	101	22	73	99,4
327	2,50	25	85	100	24	68	99,4
330	2,48	25	84	101	24	64	99,4
323	2,53	26	85	100	24	63	99,4
327	2,50	25	85	100	26	61	99,4
323	2,53	26	85	100	24	63	99,4
351	2,34	26	83	99	25	60	99,4
396	2,07	26	83	99	25	60	99,4
speed as in 3.2.1.1							
317	2,58	26	85	102	25	59	99,4
speed as in 3.2.1.2							
360	2,28	26	85	102	25	59	99,4
330	2,48	25	84	101	24	64	99,4
351	2,33	26	84	100	26	63	99,4
408	2,01	26	85	101	26	63	99,4
speed as in 3.2.2.1							
328	2,50	26	85	100	25	59	99,4
speed as in 3.2.2.2							
381	2,15	26	85	100	25	59	99,4

PRÜFUNGS-ABTEILUNG
JOHN DEERE 2155 TSS

ADDITIONAL TESTS UNDER THE RESPONSIBILITY OF THE DLG-TESTING STATION

4 DRAWBAR POWER AND FUEL CONSUMPTION (front wheel drive disengaged)

Date of tests: 27th till 30th May 1988
Type of track: Concrete
Height of drawbar above ground: 430 mm

Gear	Driving speed km/h	Power kW	Drawbar pull kN	Engine speed rev/min	Slip of wheels %
4.1 MAXIMUM POWER IN TESTED GEARS					
3 I HI	4,69	23,3	17,92	2367	15,0
4 I LO	5,15	25,7	17,99	2301	15,1
1 II LO	5,41	26,5	17,65	2198	14,8
4 I HI	6,52	26,5	14,63	2202	12,0
1 II HI	7,23	26,9	13,41	2202	10,9
2 II LO	8,64	26,8	11,17	2198	9,0
2 II HI	11,28	26,5	8,47	2198	6,6
4.2 FUEL CONSUMPTION					
4.2.1 In selected gear at maximum power					
1 II HI	7,23	26,9	13,41	2202	10,9
4.2.1.1 75% of pull at maximum power					
1 II HI	7,94	22,1	10,04	2344	8,1
4.2.1.2 50% of pull at maximum power					
1 II HI	8,31	15,5	6,72	2378	5,2
4.2.1.3 Next higher gear at reduced engine speed; same pull and					
2 II LO	7,97	22,2	10,03	2006	8,0
4.2.1.4 Next higher gear at reduced engine speed; same pull and					
2 II LO	8,38	15,6	6,69	2048	5,3
4.2.2 In selected gear nearest to 7,5 km/h					
4 I HI	6,52	26,5	14,63	2202	12,0
4.2.2.1 75% of pull at maximum power					
4 I HI	7,17	21,9	11,00	2340	8,9
4.2.2.2 50% of pull at maximum power					
4 I HI	7,52	15,4	7,38	2374	5,9
4.2.2.3 Next higher gear at reduced engine speed; same pull and					
1 II HI	7,23	21,9	10,92	2155	9,0
4.2.2.4 Next higher gear at reduced engine speed; same pull and					
1 II HI	7,56	15,3	7,27	2178	5,8

PRÜFUNGS-ABTEILUNG

Test **No. 88-44**

Tyre size front: 9.5-24
rear: 16.9-28

Tyre inflation pressure 80 kPa at front and 80 kPa at rear

Specific fuel consumpt. g/kWh	Specific energy kWh/l	Temperatures Fuel °C	Coolant °C	Engine-oil °C	Atmospheric conditions Tempe-rature °C	Relative humidity %	Pressure kPa
364	2,25	24	83	100	23	85	98,9
353	2,32	24	83	100	23	84	98,9
342	2,40	25	84	101	23	81	98,9
343	2,39	25	85	100	23	82	98,9
338	2,42	24	83	98	16	80	99,2
339	2,42	25	83	98	17	78	99,2
343	2,39	24	83	87	17	77	99,2
338	2,42	24	83	98	16	80	99,2
356	2,30	24	84	99	21	71	99,2
413	1,98	24	83	99	21	71	99,2
speed as in 4.2.1.1							
329	2,49	24	83	99	21	71	99,2
speed as in 4.2.1.2							
369	2,22	24	83	99	21	71	99,2
343	2,39	25	85	100	23	82	98,9
356	2,30	24	83	98	20	73	99,2
411	1,99	24	82	98	20	73	99,2
speed as in 4.2.2.1							
342	2,39	24	83	100	21	73	99,1
speed as in 4.2.2.2							
392	2,09	24	83	100	21	73	99,1

PRÜFUNGS-ABTEILUNG
JOHN DEERE 2155 TSS

Test No. 88-44

5 NOISE AT THE DRIVER'S EAR (acc. to OECD-Code V)

Date of tests: 10th August 1988
Type of track: Concrete
Type of sound level meter: BRÜEL & KJAER model 2233

Tractor fitted with JOHN DEERE protective frame ROLL GARD

Results of tests (front wheel drive engaged, except 4 II HI gear)

Gear	Drawbar pull at which the tractor develops the maximum sound level kN	Travelling speed nominal km/h	Travelling speed effective km/h	Sound level dB(A)
1 I LO	23,43	1,80	1,58	93,0
1 I HI	24,00	2,29	1,97	93,5
2 I LO	23,77	2,70	2,34	93,0
2 I HI	23,88	3,44	2,96	93,5
3 I LO	23,44	4,17	3,49	94,5
3 I HI	18,96	5,30	4,74	95,5
4 I LO	17,12	6,02	5,52	94,5
1 II LO	15,61	6,58	6,11	95,0
4 I HI *)	12,74	7,66	7,26	95,0
4 I HI *)	light load	7,66	8,00	91,0
1 II HI	11,65	8,38	8,00	95,0
2 II LO	9,61	9,88	9,49	95,0
2 II HI	7,00	12,57	12,29	94,5
3 II LO	5,49	15,22	15,09	95,0
4 II HI	light load	27,98	29,63	92,0

*) The 4 I HI gear corresponds to the nominal speed nearest to 7,5 km/h

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