T.C.
TARIM VE KÖYİŞLERİ BAKANLIĞI
TARIM ALET VE MAKİNALARI
TEST MERKEZİ MÜDÜRLÜĞÜ

TEST REPORT

REPORT NO: 906/2130 -TGK.15
OECD Approval No: 2/2 013
Date of Approval No: 05 th Nov 2002

Report on test in accordance with the OECD Standard Code 2 for the Official Testing of Agricultural Tractors Performance

CODE 2
Restricted Code



NEWHOLLAND TD 65 D – 4 WD
(12 speeds – 30 km/h)



CASE IH JX 65 – 4 WD
(12 speeds – 30 km/h)

Submitted for Test by : TÜRK TRAKTÖR VE ZİRAAT MAKİNALARI A.Ş.
Gazi/ANKARA

JULY - 2002
ANKARA

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This is a report on a tractor tested in accordance with OECD standard code for the official Testing of Agricultural Tractor Performance, it doesn't contain an evaluation of the tractor on field activities..

UNITS

Forces	1 kN	= 1000 N	= 102 kp
Powers	1 kW	= 1.36 HP	
Pressures	1 MPa	= 10 bar	= 10.2 kp/cm^2
	100 kPa	= 1000 mbar	= 750.1 mmHg

New Holland TD 65 D (4 WD) and Case IH JX 65 (4 WD) tractors have same specification but they have different colour, bonnet, rim colour, grill, head lights, grill support and model (trade name).
All tests were carried out on New Holland TD 65 D (4 WD)

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Tractor Manufacturer's name and address	: TÜRK TRAKTÖR ve ZIRAAT MAKINALARI A.Ş. Güvercin yolu 111-112 Gazi/ANKARA
Location of tractor assembly	: TÜRK TRAKTÖR ve ZIRAAT MAKINALARI A.Ş.
Submitted for test by	: TÜRK TRAKTÖR ve ZIRAAT MAKINALARI A.Ş.
Selected for test by	TÜRK TRAKTÖR ve ZIRAAT MAKINALARI A.Ş.
Place of running in	: DAEMTC
Duration of running in	: 30 hours
Location of test	: DAEMTC (The Directorate of Agricultural Equipment and Machinery Testing Centre)

1. SPECIFICATIONS OF TRACTOR

1.1 IDENTIFICATION

1.1.1.Make of the tractor	: NEW HOLLAND
Model (trade name)	: TD 65 D,
Type	: 4 WD
No. of Driving Wheels	: 4
1.1.2. Serial No	
First Serial No or Prototype	: HFD000048
Serial No	: HFD000267
1.1.3.Other Specifications;	
Model (s) for other countries	: None
Transmission Type or Gears x Ranges	: 12 forward 12 reverse Mechanical, full sencromesh, Mechanical, full sencromesh,
Speed version	: 30 km/h
Manufacturer identification or Technical type number	: D 2 S 7 AA

1.2 ENGINE

Make, Model and Type	:IVECO 8035.05-406 (or TTF 8035.05.406T), water cooled, direct injection 4 cycles, diesel engine
Serial No.	: 843033

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1.2.1 Cylinders

Number/disposition	: 3, vertical in line
Bore/stroke	: 104 mm/115 mm
Capacity	: 2931 cm^3
Compression rate	: 17/1
Arrangement of valves	: Overhead
Cylinder liners	: Dry replaceable

1.2.2 Supercharging : None

1.2.3 Fuel System

Fuel feed system	: Double diaphragm
Make, type and model of fuel filter (s)	: BOSCH, replaceable paper element cartridge
Capacity of fuel tank	: 90 dm^3
Make, model and type of injection pump	:BOSCH L 814-2 or BOSCH, VE 3/11 F 1250 LV 15123, rotative
Serial no	: 549857
Manufacturer's production setting of injection pump	
Flow rate*	: 11.43-12.15 l/h at rated engine speed and full load
Timing	: 9° before T.D.C
Make,type and model of injectors	:BOSCH 432 291 494
Injection pressure	: 26.0 MPa

**not any setting by manufacturer because of atmospheric pressure*

1.2.4 Governor

Make, model and type	: BOSCH, hydraulic automatic, in corporated in the fuel pump
Governed range of engine speed	: 650 – 2795 rev/min
Rated engine speed	: 2500 rev/min

1.2.5 Air cleaner

Pre-cleaner	:None
Main cleaner	
Make, model and type	: DONALDSON, P77-2579, dry
Location of air intake	: on front of the radiator under the bonnet cowling
Maintenance indicator	: None

1.2.6 Lubrication system

Type of feed pump	: Forced feed with gear pump
Type of filter(s)	: one is multihole sheet iron the other is replaceable paper cartridge
Number of filters	: 2

1.2.7 Cooling system

Type of coolant	: Water cooled
Type of pump	: Centrifugal, belt driven
Specification of fan	
Number of fan blades	: 4
Fan diameter	: 392 mm
Coolant capacity	: 12 dm^3
Type of temperature control	: Thermostat and thermometer on dashboard
Superpressure system	: 150 kPa

1.2.8 Starting system

Make, model and type	:BOSCH, 2339402140, solenoid engaged
Starter motor power rating	: 2.5 kW
Cold starting aid	: Flame glow plug and additional fuel system
Safety device	: Gear safety switch (when gear is neutral position)

1.2.9 Electrical system

Voltage : 12 V

Generator
make,model and type : MAKO MAGNETTI MARELLI, RTT 119 AC, AA 125 R alternator
power : 1.0 kW
Battery of accumulators
Number : 1

Rating : 105 Ah (20 h) 420 A

1.2.10 Exhaust system

Make, model and type : ALCOM 5172649 or EBERSPAKER 499 7323 under the bonnet cowling,
Location : On left hand side of engine, vertical

1.3 TRANSMISSION

1.3.1 Clutch (travel and power take-off)

Make, model and type :NEWHOLLAND,LUK,dual clutch, dry
Number of plates : 2
Diameter of plates : 280 mm
Method of operation : Pedal operated

1.3.2 Gear box

Make, model and type :NEWHOLLAND, mechanical, full syncromesh

Description :

	Forward	Reverse
Number of gears	4	4
Number of ranges	3	3
Number of groups	None	None
Total of arrangements	12	12

Available options :

	Forward	Reverse
Number of gears	4	4
Number of ranges	3	3
Number of groups	2	None
Total of arrangements	20	12

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	Forward	Reverse
Number of gears	4	4
Number of ranges	3	1
Number of groups	None	None
Total of arrangements	12	4

1.3.3 Rear axle and final drives

Make, model and type : NEW HOLLAND, with reducter(model none)

Differantial lock

Type : Mechanical

Method of engagement : Pedal operated

Method of disengagement: Self disengaged

1.3.4 Front Axle and final drives

Make, model and type : NEW HOLLAND,134979 – Scm

Differantial lock :None

1.3.5 Total ratios & travelling speed (tested tractor)

Gear no	Group or range	Number of engine revolutions for one revolution of the driving wheels		Nominal travelling speed (*) at rated engine speed of 2500 rev/min km/h	
		Forward	Reverse	Forward	Reverse
1	I Slow	366.666	365.569	1.71	1.71
2		237.980	237.269	2.63	2.64
3		175.000	174.476	3.58	3.59
4		122.163	121.798	5.13	5.15
1	II Normal	156.987	156.518	3.99	4.00
2		101.891	101.586	6.15	6.17
3		74.926	74.702	8.37	8.39
4		52.304	52.148	11.98	12.02
1	III Fast	66.682	66.483	9.40	9.43
2		43.279	43.150	14.48	14.52
3		31.826	31.730	19.69	19.75
4		22.217	22.150	28.21	28.30

* Calculated with a tyre dynamic index of 665 mm (ISO 4251-1:1998)

Number of revolutions of front wheels for one revolution of rear wheels : 1.343

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1.3.5 Total ratios & travelling speed (Optional)

Gear no	Group or range	Number of engine revolutions for one revolution of the driving wheels		Nominal travelling speed (*) at rated engine speed of 2500 rev/min km/h	
		Forward	Reverse	Forward	Reverse
1	I Creeper	2025.282	-	0.31	-
2		1314.486	-	0.48	-
3		966.612	-	0.65	-
4		674.769	-	0.93	-
1	II Creeper	867.121	-	0.72	-
2		562.795	-	1.11	-
3		413.853	-	1.51	-
4		288.901	-	2.17	-
1	I Slow	366.666	365.569	1.71	1.71
2		237.980	237.269	2.63	2.64
3		175.000	174.476	3.58	3.59
4		122.163	121.798	5.13	5.15
1	II Normal	156.987	156.518	3.99	4.00
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* Calculated with a tyre dynamic index of 665 mm (ISO 4251-1:1998)
Number of revolutions of front wheels for one revolution of rear wheels : 1.343

1.3.5 Total ratios & travelling speed (Optional)

Gear no	Group or range	Number of engine revolutions for one revolution of the driving wheels		Nominal travelling speed (*) at rated engine speed of 2500 rev/min km/h	
		Forward	Reverse	Forward	Reverse
1	I Slow	366.666	-	1.71	-
2		237.980	-	2.63	-
3		175.000	-	3.58	-
4		122.163	-	5.13	-
1	II Normal	156.987	156.518	3.99	4.00
2		101.891	101.586	6.15	6.17
3		74.926	74.702	8.37	8.39
4		52.304	52.148	11.98	12.02
1	III Fast	66.682	-	9.40	-
2		43.279	-	14.48	-
3		31.826	-	19.69	-
4		22.217	-	28.21	-

* Calculated with a tyre dynamic index of 665 mm (ISO 4251-1:1998)
Number of revolutions of front wheels for one revolution of rear wheels : 1.343

1.4 POWER TAKE-OFF

1.4.1 Main power take-off

Type	: Independant
Method of engagement	: driven by wet multiplate clutch
Number of shafts	: 1
Method of changing power take-off speeds	: By hand lever

1.4.1.1 Power take-off proportional to engine speed

540 rev/min

Location	: At rear of tractor
Diameter of power take-off shaft end	: 34.9 mm
Number of splines	: 6, in conformity with ISO 500:1991
Height above ground	: 660 mm
Distance from the median plane of the tractor	: 0 mm
Distance behind rear-wheel axis	: 330 mm
P.T.O speed at rated engine speed	: 614 rev/min
Engine speed at standard power take-off speed	: 2200 rev/min
Ratio of rotation speeds (engine speed/p.t.o speed)	: 4.074/1
Power restriction and maximum torque	: None
Maximum torque transmissible	: None
Direction of rotation (viewed from behind tractor)	: Clockwise

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750 rev/min

Location	: At rear of tractor
Diameter of power take-off shaft end	: 34.9 mm
Number of splines	: 6,not in conformity with ISO 500:1991
Height above ground	: 660 mm
Distance from the median plane of the tractor	: 0 mm
Distance behind rear-wheel axis	: 330 mm
P.T.O speed at rated engine speed	: 787 rev/min
Engine speed at standard power take-off speed	: 2382 rev/min
Ratio of rotation speeds (engine speed/p.t.o speed)	: 3.176/1
Power restriction and maximum torque	: None
Maximum torque transmissible	: None
Direction of rotation (viewed from behind tractor)	: Clockwise

1000 rev/min (not fitted on tested tractor)

Location	: At rear of tractor
Diameter of power take-off shaft end	: 34.9 mm
Number of splines	:6,not in conformity withISO 500:1991
Height above ground	: 660 mm
Distance from the median plane of the tractor	: 0 mm
Distance behind rear-wheel axis	: 330 mm
P.T.O speed at rated engine speed	: 1050 rev/min
Engine speed at standard power take-off speed	: 2381 rev/min
Ratio of rotation speeds (engine speed/p.t.o speed)	: 2.381/1
Power restriction and maximum torque	: None
Maximum torque transmissible	: None
Direction of rotation (viewed from behind tractor)	: Clockwise

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1.4.1.2 Power take-off proportional to ground speed

	540	750
Travelling distance for 1 revolution of take-off shaft	: 0.610 m	0.477m
Number of power take-off shaft revolutions for one revolution of (rear) driving wheels(14.9 - 30)	:6.845	8.765
Direction of ratation with forward gear engaged (viewed from behind tractor)	: Clockwise	

1.5 HYDRAULIC POWER LIFT

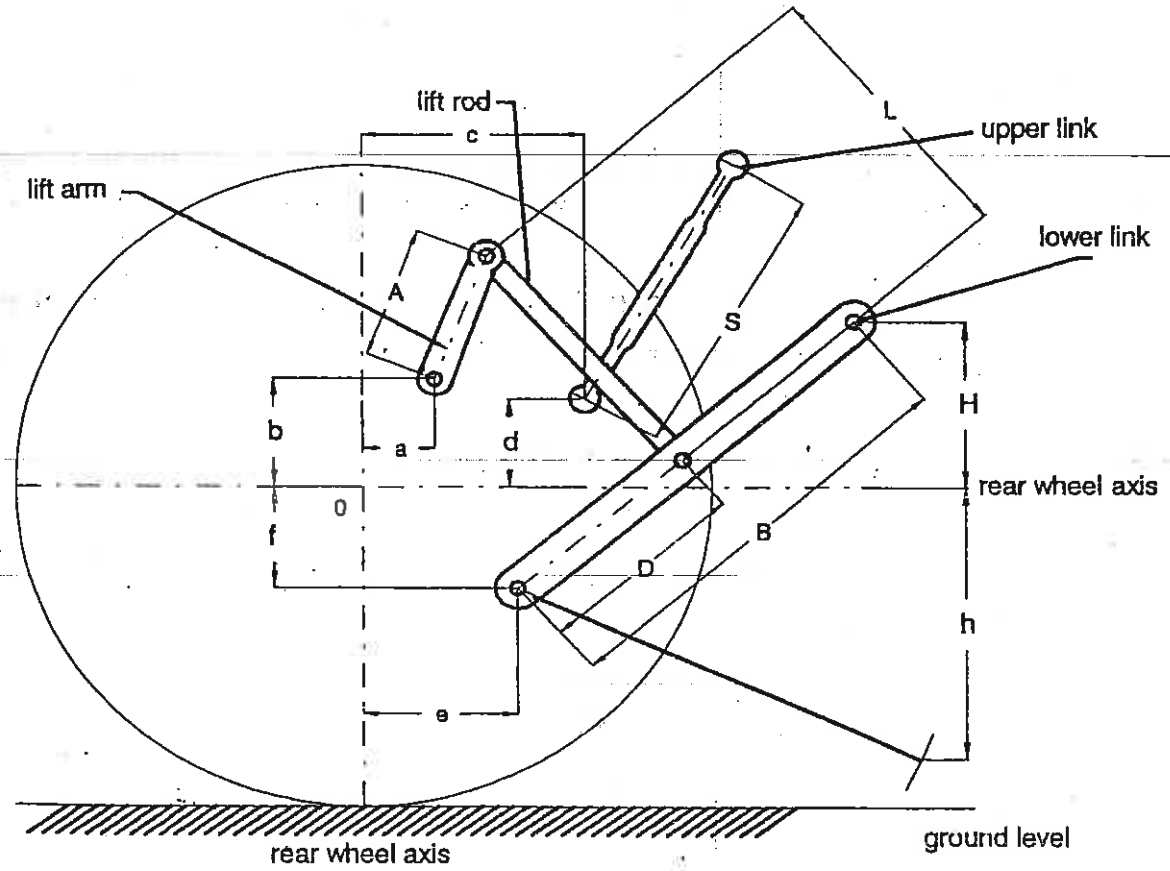
Make, model and type	: NEWHOLLAND Lift-O-matic
Type of hydraulic system	: Open center system
Type and number of cylinders	: 1, single and double acting
Type of linkage lock for transport	: Hydraulic
Relief valve pressure setting	: 19.4-19.9 MPa
Opening pressure of cylinder safety valve	: 23.4-24.5 MPa
Lift pump type	: Gear 0.87 Bosch 0510.525.348
Transmission between pump and engine	: With gear
Type and number of filters	: 1, replaceable cartridge element
Site of oil reservoir	: Gear box
Type, number and location of tapping points	: At rear of tractor,4, single or double acting
Maximum volume of oil available to external cylinders	: None

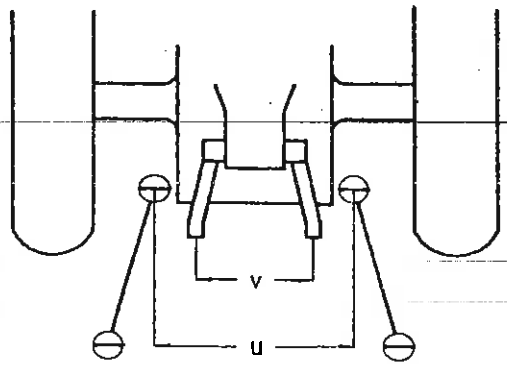
1.6 Three- point linkage

Category	: 2, ISO standard 730/1-1994 + Corrigendum 1:1995
Category adapter	: No

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Rear Linkage geometry





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TABLE 2.1. Dimensions of linkage geometry (when connected to the standard frame)

		Dimension or range (mm)	Settings Used in test (mm)
Length of lift arms	(A)	255	255
Length of lower links	(B)	920	920
Distance of lift arm pivot point from rear wheel axis			
- Horizontally	(a)	6	6
- Vertically	(b)	295	295
Horizontal distance between the two lower link points	(u)	500	500
Horizontal distance between the two lift arm end points	(v)	495	495
Length of upper link	(S)	from 635 to 980	785
Distance of upper link pivot point from rear wheel axis			
- horizontally	(c)	180/195	195
- vertically	(d)	190/240	190
Distance of lower link pivot point from rear wheel axis			
- horizontally	(e)	75	75
- vertically	(f)	208	208
Distance of lower link pivot points to lift rod pivot points on lower links	(D)	435/510	435
Length of lift rods	(L)	from 550 to 615	570
Height of lower hitch points relative to the rear wheel axis			
- in low position	(h)	from 385 to 555	460
- in high position	(H)	from 195 to 310	217
Height above ground of lower hitch points when locked in transport position (*)	Any height within lift range		

(*) Assuming r = 665 mm tire dynamic radius index of ISO 4251-1:1998

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1.7 SWINGING DRAWBAR

Type	: Clevis
Height above ground;	
Maximum	: 488 mm
Minimum	: 386 mm
Type of adjustment	: reversing
Distance of hitch point from rear – wheel axis horizontally	: 780 mm
Distance of hitch point from p.t.o shaft ends	
Vertically	: 167/270 mm
Horizontally	: 450mm
Lateral adjustment (center of clevis)	
Right-hand	: 45 mm
Left-hand	: 58 mm
Distance of pivot point from rear-wheel axis horizontally	: 144 mm
Diameter drawbar pin hole	: 29 mm
Maximum vertical permissible load	: None

1.8 TRAILER HITCH

Type	:Clevis, adjustable drawbar, FIAT DGM-GA-1087-C-02 6t 1.5
Hole diameter	: 29 mm
Height above ground	: 850/940 mm
Distance of hitch point from rear – wheel axis, horizontally	: 430 mm
Distance of hitch point from PTO shaft end	
Vertically	: 284 mm
Horizontally	: 100 mm
Maximum vertical permissible load	: None

1.9 HOLED DRAWBAR :None

1.10 STEERİNG

Make, model and type : DANFOSS, BOSCH 0.87 0510.525.046, hydraustatic

Method of operation

Pump(s) : NEWHOLLAND,Gear pump

Ram(s) : 1, Double acting

Working pressure : 10.0 MPa

1.11 BRAKES

1.11.1 Service brake

Make, model and type : NEWHOLLAND, mechanical, oil bathed,

Method of operation : Mechanical, pedal operated

Trailer braking take-off : None

1.11.2 Parking brake

Type : Mechanical, with service brake together

Method of operation :By hand lever operated with ratchet

1.12. WHEELS

Number

Front : 2/steering and driving

Rear : 2/driving

Wheelbase : 2119 mm

Track width adjustment

	Minumum mm	Maximum mm	Adjustment method
Front	1445	1875	reversing wheels and off-set lug rims
Rear	1424	1924	reversing wheels and off-set lug rims

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1.13 PROTECTIVE, STRUCTURE

Make, model and type	: NEWHOLLAND, TD-KÇ-2
Manufacturer's name and address	: Türk Traktör Ziraat Mak. A.Ş. Güvercin yolu No:111-112 Gazi/ANKARA
Protective device Cab / frame / roll guard / other	: Rollbar
Tiltable / not tiltable	: Not tiltable
OECD approval	:None

1.14 SEAT

1.14.1 Driver's seat

Make, model and type	: PILOT,I-II e1 0017 viniex covered
Seat and steering wheel reversible	: No
Type of suspension	: coil spring
Type of damping	: hydraulic
Range of adjustment Longitudinally	: 90 mm
Vertically	: 65 mm
Safety belt	: No

1.14.2. Optional drivers seat(s) : **No**

1.14.3 Passenger seat : **No**

1.15 LIGHTING

	Height above ground of center mm	Size mm	Distance from outside edge of lights to median plane of tractor mm
Headlights	1260 (1108)*	140x85	195
Sidelights	1345	110x35	856
Rearlights	1514	75x70	680
Reflectors	1514	75x40	700

** in the Case IH*

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2.TEST CONDITIONS

2.1 OVERALL DIMENSIONS (unballasted tractor)

Length	Width		Height at top of	
	minimum	maximum	Protective structure	exhaust pipe
mm	mm	mm	mm	mm
3695	1799	2299	2555	2470

2.2 GROUND CLEARANCE (unballasted tractor)

Clearance – limiting part :265 mm (swinging drawbar in lowest position)

2.3 TRACTOR MASS (unballasted tractor)

	Without driver kg	with driver kg
Front	1064	1075
Rear	1716	1780
Total	2780	2855

2.4 TYRES AND TRACK WİDTH SPECIFICATIONS

	Front	Rear
Tyres :	GOOD YEAR	GOOD YEAR
Dimensions	9.5-24	14.9 -30
Ply rating	6	6
Type	-	-
Maximum load (tyre manufacturer's)	9.22 kN	16.32 kN
Maximum load (tractor manufacturer's)	9.22 kN	16.32kN
Inflation pressure (tyre manufacturer's)	210 kPa	140 kPa
Dynamic radius index	495 mm	665 mm
Chosen track width	1445 mm	1424 mm

2.5 OILS AND LUBRICATION

2.5.1 Capacity and change interval

	Capacity dm^3	Oil change h	Filter Change h
Engine	7.3	200	400
Gear box	46	1600	400
Rear axle *			
Final drive (front)	3.9	-	-
Final drive (rear) *			
Hydraulic system *			
Steering	1.8	-	800

* Common with gear box

2.5.2 Specifications

	Recommended	Used during test
Engine oil Type Viscocity Classification	BP TERRAC DIESEL 20W/50	Same
Hydraulic Fluid Type Viscocity Classification	BP TERRAC TRACTAN 8 Fluid 8	Same
Transmission oils Type Viscocity Classification	BP TERRAC TRACTAN 8 Fluid 8	Same
Steering Type Viscocity Classification	BP TERRAC TRACTAN 8 Fluid 8	Same

2.5.3 Grease : MOBILUX EP2

Number of lubrication points : 7

2.6 FUEL

Type : P.O Diesel oil, (in conformity with national standard, TS 3082)

Density at 15 °C : PTO :0.8195 g/cm^3
Drawbar :0.827 g/cm^3

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3. COMPULSORY TEST RESULTS

3.1 MAIN POWER TAKE-OFF

Date and location of tests : 18-25/03/2002, D.A.E.M.T.C

Type of dynamometer bench :AEG Electrical

Power	Speed		Fuel consumption			Specific energy
	Engine	PTO	Hourly		Specific	
kW	rev/min		kg/h	l/h	g/kWh	kWh/ l
3.1.1. MAXIMUM POWER- TWO HOUR TEST						
37.8	2500	614	9.41	11.48	249	3.29
3.1.2. Power at rated engine speed						
37.8	2500	614	9.41	11.48	249	3.29
3.1.3. Standard Power Take-off speed (540 ± 10 rev/min)						
35.6	2200	540	8.53	10.41	240	3.42
3.1.4. PART LOADS						
3.1.4.1.The torque corresponding to maximum power at rated engine speed						
37.8	2500	614	9.41	11.48	249	3.29
3.1.4.2. 85% of torque obtained in 3.1.4.1.						
34.5	2686	659	9.04	11.03	262	3.13
3.1.4.3. 75% of torque defined in 3.1.4.2.						
26.2	2720	668	7.19	8.78	274	2.98
3.1.4.4. 50% of torque defined in 3.1.4.2.						
17.7	2752	676	5.46	6.66	308	2.66
3.1.4.5. 25% of torque defined in 3.1.4.2.						
8.9	2773	681	3.99	4.87	448	1.83
3.1.4.6. No load						
0	2796	686	2.83	3.45	-	-

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Power	Speed		Fuel consumption			Specific energy
	Engine	PTO	Hourly		Specific	
kW	rev/min		kg/h	l/h	g/kWh	kWh/l
3.1.5.PART LOADS AT STANDARD POWER TAKE-OFF SPEED (540 ±10 rev/min)						
3.1.5.1. The torque corresponding to maximum power						
35.6	2200	540	8.53	10.41	240	3.42
3.1.5.2. 85% of torque obtained in 3.1.5.1.						
31.8	2316	569	7.76	9.47	244	3.36
3.1.5.3. 75% of torque defined in 3.1.5.2.						
24.4	2371	582	6.32	7.72	259	3.16
3.1.5.4. 50% of torque defined in 3.1.5.2.						
16.9	2419	594	4.82	5.88	285	2.87
3.1.5.5. 25% of torque defined in 3.1.5.2.						
8.4	2454	602	3.45	4.22	411	1.99
3.1.5.6. No load						
0	2489	611	2.31	2.81	-	-

Maximum engine speed at no load : 2796 rev/min
Torque at maximum power(equivalent cranks shaft)
- At rated engine speed :144.3 Nm
- At 2-hour test :144.3 Nm

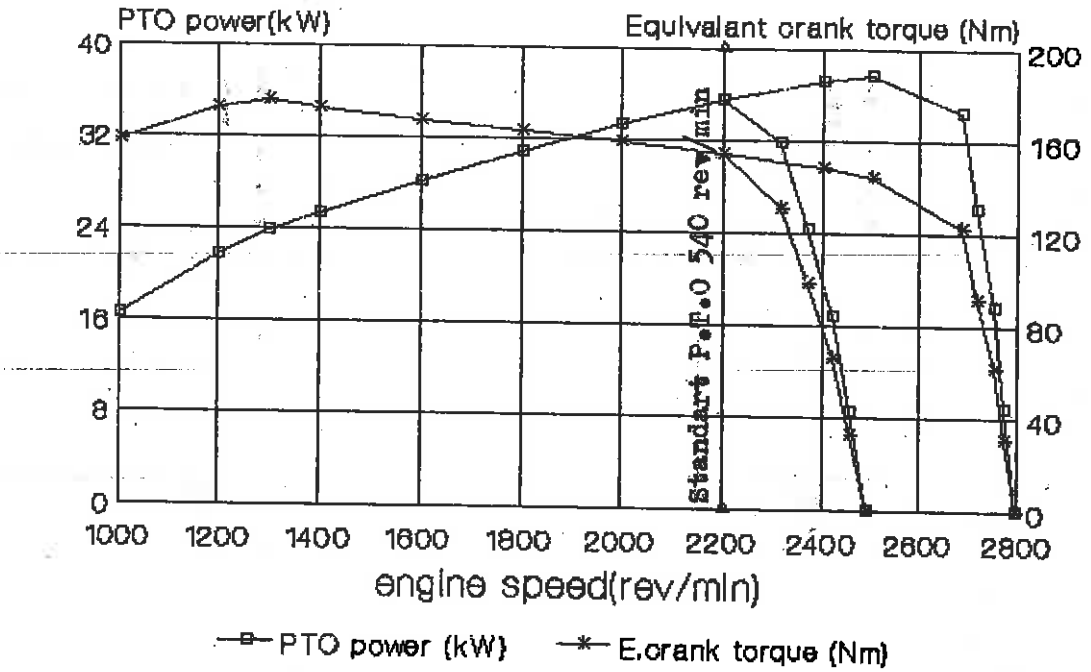
Maximum torque :175.8 Nm(1300 rev/min engine speed)

Mean atmospheric conditions
- Temperature : 23 °C
- Pressure : 91.5 kPa
- Relative humidity : 39%

Maximum temperatures (°C)
- Cooling water : 76
- Engine oil : 115
- Fuel : 36
- Engine air intake : 28

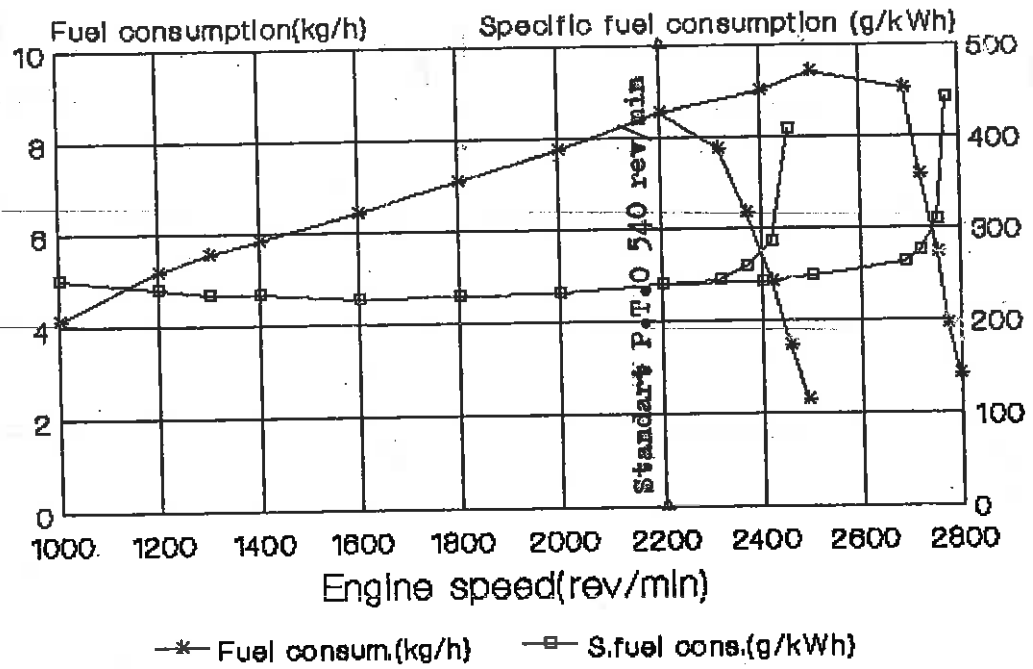
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PTO Power



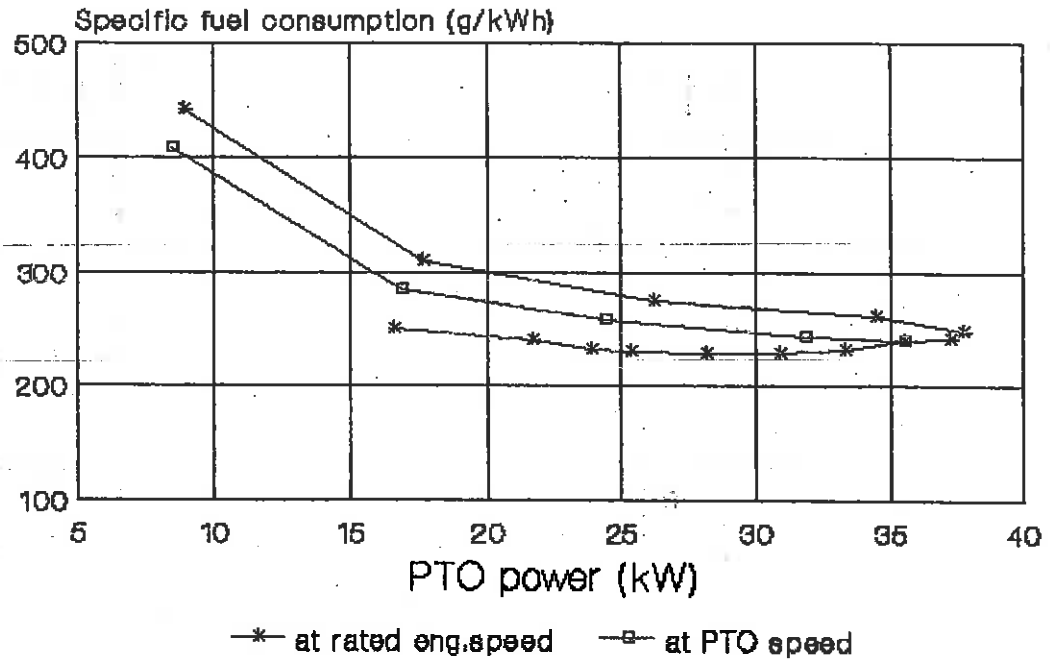
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PTO Power



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PTO power



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3.2 HYDRAULIC POWER AND LIFTING FORCE

Date of tests : 04.04.2002

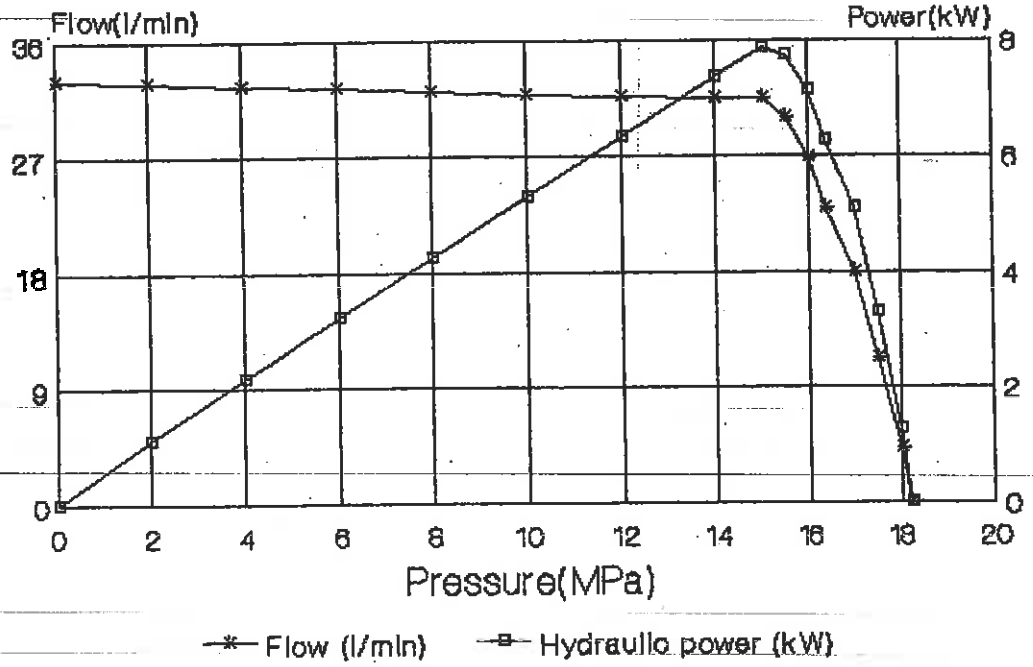
3.2.1 Hydraulic power test

Sustained pressure with relief valve open : 18.2 MPa

Pump delivery rate at minimum pressure :33.1 l/min

	Flow rate l/min	Pressure MPa	Power kW
Flow rate corresponding to a hydraulic pressure equivalent to 90% of the actual relief valve pressure setting and corresponding hydraulic power	23.0	16.4	6.3
Flow rate and hydraulic pressure corresponding to maximum hydraulic power	31.5	15.0	7.9

Tapping point used for test :Rear of tractor, 4
Temperature of hydraulic fluid :60 °-64 °C
Opening/closing pressure of the unloading valve: -



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3.2.2 Power lift test

Linkage settings for test: see 11-12 pages

		At the hitch point	On the frame
Height of lower hitch point above ground in down position	mm	205	205
Vertical movement	mm	677	895
Maximum corrected force exerted through full range	kN	23.9	16.1
Corresponding pressure of hydraulic fluid	MPa	16.4	16.4
Moment about rear wheel axis	kNm	23.8	25.8
Maximum tilt angle of mast from vertical	Degrees	-	15°

Lifting heights relative to the horizontal lower links

mm	-325	-252	-200	-100	0	+100	+200	+300	+400	+425	+570

Lifting forces (the values of force measured shall be corrected to correspond to a hydraulic pressure equivalent to 90 % of the actual relief valve pressure setting of the hydraulic lift system)

At the hitch point: Corresponding pressure:16.4 MPa

kN	-	23.9	24.6	25.0	25.1	25.0	25.3	24.7	25.3	24.7	-

At the frame: Corresponding pressure: 16.4 MPa

kN	18.7	19.1	19.3	19.3	19.1	18.6	18.2	17.6	17.1	17.1	16.1

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3.3 DRAWBAR POWER AND FUEL CONSUMPTION (unballasted tractor)

Date of tests : 22-27/05/2002
Type of track: Concrete

Height of drawbar above ground	Tyre inflation pressure	
	Front	Rear
345 mm	220 kPa	150 kPa

Gear and group	Power	Drawbar pull	Speed	Engine speed	Slip of wheels	Specific fuel consump.	Specific energy	Temperature			Atmospheric conditions		
no	kW	kN	km/h	rev/min	%	g/ kWh	kWh / l	Fuel °C	Coolant °C	Engine Oil °C	Tem pera ture °C	Relative humidity %	Pressure kPa
3.3.1. MAXIMUM POWER IN TESTED GEARS (Unballasted tractor)													
I-1	8.2	17.79	1.65	2761	15.0	643	1.29	55	72	83	21	49	91.5
I-2	12.1	17.43	2.50	2723	15.1	529	1.56	55	72	83	21	49	91.5
I-3	16.2	17.26	3.38	2703	14.9	453	1.83	55	72	83	21	49	91.5
II-1	17.4	16.66	3.76	2702	15.0	425	1.95	60	72	85	22	49	91.5
I-4	21.7	16.37	4.77	2666	15.1	392	2.11	60	76	85	22	49	91.5
II-2	25.4	16.20	5.65	2630	14.9	360	2.30	60	76	85	22	49	91.5
II-3	28.1	13.13	7.71	2504	10.4	328	2.52	65	76	91	22	49	91.5
III-1	28.7	11.77	8.79	2506	9.1	319	2.59	65	76	91	22	49	91.5
II-4	30.1	9.53	11.36	2509	8.0	304	2.72	65	76	91	22	49	91.5
III-2	30.9	8.05	13.83	2495	6.8	296	2.79	65	76	91	22	49	91.5
III-3	This gear couldn't be tested because of safety reason												
3.3.2.FUEL CONSUMPTION													
3.3.2.1. In selected gear, at maximum power at rated speed													
III-2	30.9	8.05	13.83	2495	8.6	296	2.79	50	76	91	22	35	91.5
3.3.2.1.1. 75 % of pull at maximum power at rated speed													
III-2	25.0	6.04	14.90	2663	5.9	352	2.35	65	76	91	22	35	91.5
3.3.2.1.2. 50 % of pull at maximum power at rated speed													
III-2	17.1	4.03	15.24	2702	5.1	387	2.14	65	76	91	23	35	91.5
3.3.2.1.3. Next higher gear at reduced engine speed; same pull and travelling speed as in 3.3.2.1.1.													
III-3	24.9	6.06	14.82	1946	5.8	270	3.06	65	76	91	23	35	91.5
3.3.2.1.4. Next higher gear at reduced engine speed; same pull and travelling speed as in 3.3.2.1.2.													
III-3	17.2	4.03	15.36	2003	5.1	318	2.60	65	76	91	23	35	91.5
3.3.2.2. in selected gear nearest to 7.5 km/h at rated speed													
II-3	28.1	13.13	7.71	2504	10.4	328	2.52	65	76	91	23	35	91.5
3.3.2.2.1. 75 % of pull at maximum power at rated speed													
II-3	23.2	9.85	8.49	2682	7.8	360	2.30	65	76	91	23	35	91.5
3.3.2.2.2. 50 % of pull at maximum power at rated speed													
II-3	16.0	6.57	8.76	2715	6.0	411	2.02	65	76	91	23	35	91.5
3.3.2.2.3. Next higher gear at reduced engine speed; same pull and travelling speed as in 3.3.2.2.1.													
III-1	22.5	9.85	8.23	2311	7.7	310	2.67	65	76	91	23	35	91.5
3.3.2.2.4. Next higher gear at reduced engine speed; same pull and travelling speed as in 3.3.2.2.2.													
III-1	16.1	6.61	8.76	2413	6.0	367	2.26	65	76	91	23	35	91.5

4.OPTIONAL TESTS : None

5. REPAIRS : None

6. REMARKS : the atmospheric pressure 91.5 kPa less than 96.6 kPa fixed in the OECD Code

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Agricultural Engineer

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Mechanical Engineer

Ahmet AYGÜL
Departmant Chief

Feridun ULUTAŞ
Chairman of Test Commission

This test report has been prepared and undersigned as 26 pages

Hüseyin YAŞAR
Assistant Director

Signatures that belong to members of test commission above have been approved 24/ 07/2002

Dr. Hamdi TAŞBAŞ
Director