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

TEST REPORT

REPORT NO: 84/2053 -TGK.4
OECD Approval No: 2/2 018
Date of Approval No: 08 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



NEW HOLLAND TD 75 D – 4 WD
(12 speeds – 40 km/h)



CASE IH JX 75 – 4 WD
(12 speeds – 40 km/h)

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

JUNE - 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 75 D (4 WD) and Case IH JX 75 (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 75 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	: 20 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 75 D
Type	: 4 WD
No. of Driving Wheels	: 4
1.1.2. Serial No	
First Serial No or Prototype	: HFD000038
Serial No	: HFD000038
1.1.3.Other Specifications;	
Model (s) for other countries	: -
Transmission Type or Gears x Ranges	: Mechanical, full sencromesh, 12 forward 12 reverse
Speed version	: 40 km/h
Manufacturer identification or Technical type number	: D 3 C 7 AB

1.2 ENGINE

Make, Model and Type	IVECO 8045.06.406 (or TTF 8045.06.406 T), water cooled, direct injection 4 cycles, diesel engine
Serial No.	: 819779

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1.2.1 Cylinders

Number/disposition	: 4, vertical in line
Bore/stroke	: 100 mm/115 mm
Capacity	: 3613 cm^3
Compression rate	: 17/1
Arrangement of valves	: Overhead
Cylinder liners	: Dry

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 794 or BOSCH, VE 3/11 F 1250 LV 15128, rotative
Serial no	: 576867
Manufacturer's production setting of injection pump	
Flow rate*	: 14.04-14.76 l/h at rated engine speed and full load
Timing	: 9° before T.D.C
Make,type and model of injectors	:BOSCH 432 291 495
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	: 650-2750 rev/min
Rated engine speed	: 2500 rev/min

1.2.5 Air cleaner

Pre-cleaner	: None
Main cleaner	
Make, model and type	: DONALDSON, P.77 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 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	: 14 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, 2339402143, solenoid engaged
Starter motor power rating	: 3.5 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 :MAGNETTI MARELLI, RTT 119 AC, AA 125 R MKIB, alternator
power : 1.0 kW

Battery of accumulators
Number : 1

Rating : 120 Ah (20 h) 450 A

1.2.10 Exhaust system

Make, model and type : ALCOM 5172649 or EBERSPAKER 499 7325

Location : Vertical, on left hand side of engine

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

	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,260601 Z 51560372, II.category

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	324.193	323.223	2.02	2.03
2		210.414	209.784	3.11	3.12
3		154.728	154.266	4.23	4.25
4		108.012	107.689	6.07	6.08
1	II Normal	138.803	138.387	4.72	4.73
2		90.088	89.819	7.27	7.29
3		66.247	66.049	9.89	9.92
4		46.245	46.107	14.16	14.21
1	III Fast	58.958	58.782	11.11	11.14
2		38.266	38.151	17.12	17.17
3		28.139	28.055	23.28	23.35
4		19.643	19.584	33.35	33.44

* Calculated with a tyre dynamic index of 695 mm (ISO 4251-1:1998)
Number of revolutions of front wheels for one revolution of rear wheels : 1.350

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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	1790.681	-	0.37	-
2		1162.221	-	0.56	-
3		854.643	-	0.77	-
4		596.607	-	1.10	-
1	II Creeper	766.677	-	0.85	-
2		497.603	-	1.32	-
3		365.914	-	1.79	-
4		255.436	-	2.56	-
1	I Slow	324.193	323.223	2.02	2.03
2		210.414	209.784	3.11	3.12
3		154.728	154.266	4.23	4.25
4		108.012	107.689	6.07	6.08
1	II Normal	138.803	138.387	4.72	4.73
2		90.088	89.819	7.27	7.29
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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	324.193	-	2.02	-
2		210.414	-	3.11	-
3		154.728	-	4.23	-
4		108.012	-	6.07	-
1	II Normal	138.803	138.387	4.72	4.73
2		90.088	89.819	7.27	7.29
3		66.247	66.049	9.89	9.92
4		46.245	46.107	14.16	14.21
1	III Fast	58.958	-	11.11	-
2		38.266	-	17.12	-
3		28.139	-	23.28	-
4		19.643	-	33.35	-

* Calculated with a tyre dynamic index of 695 mm (ISO 4251-1:1998)
Number of revolutions of front wheels for one revolution of rear wheels : 1.350

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	: 675 mm
Distance from the median plane of the tractor	: 0 mm
Distance behind rear-wheel axis	: 302 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	: 675 mm
Distance from the median plane of the tractor	: 0 mm
Distance behind rear-wheel axis	: 302 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	: 675 mm
Distance from the median plane of the tractor	: 0 mm
Distance behind rear-wheel axis	: 302 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	; 0.589 m	0.461m
Number of power take-off shaft revolutions for one revolution of (rear) driving wheels(16.9 - 30)	:7.411	9.482
Direction of ratation with forward gear engaged (viewed from behind tractor)	: Clockwise	

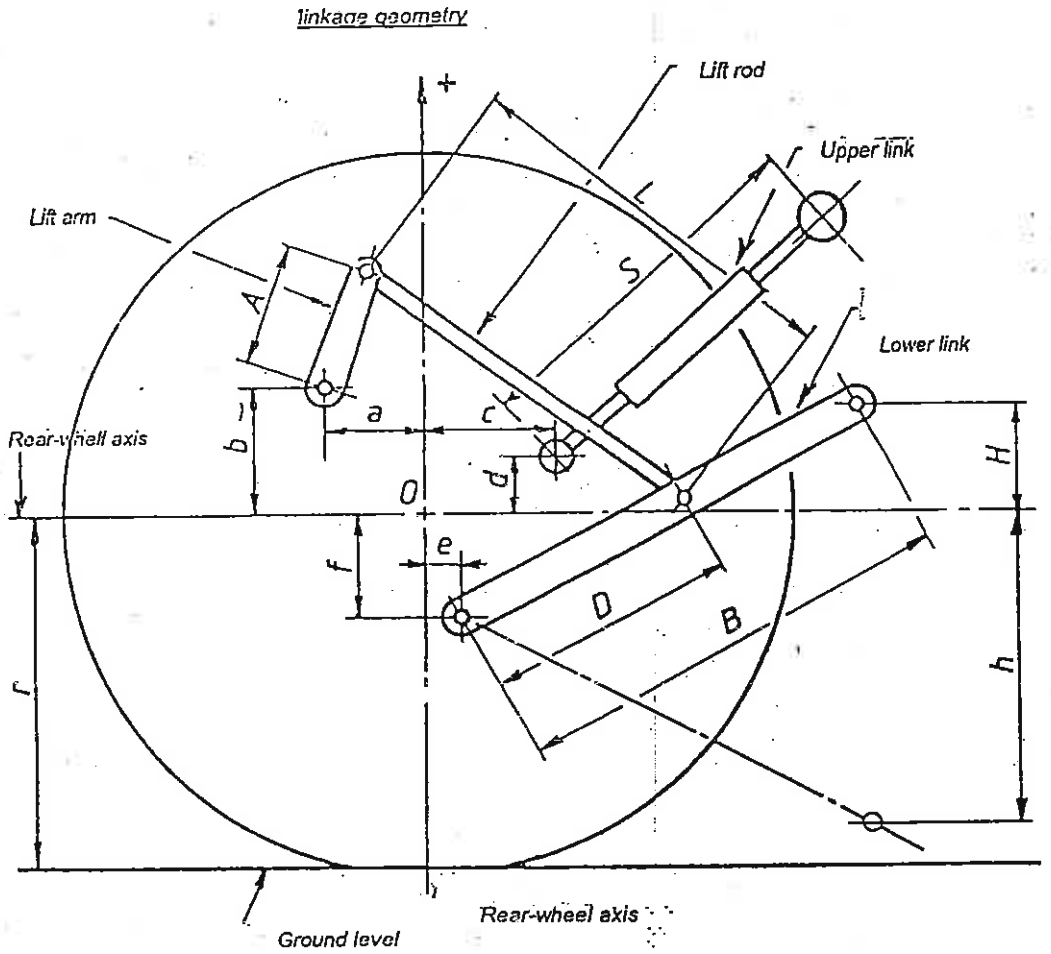
1.5 HYDRAULIC POWER LIFT

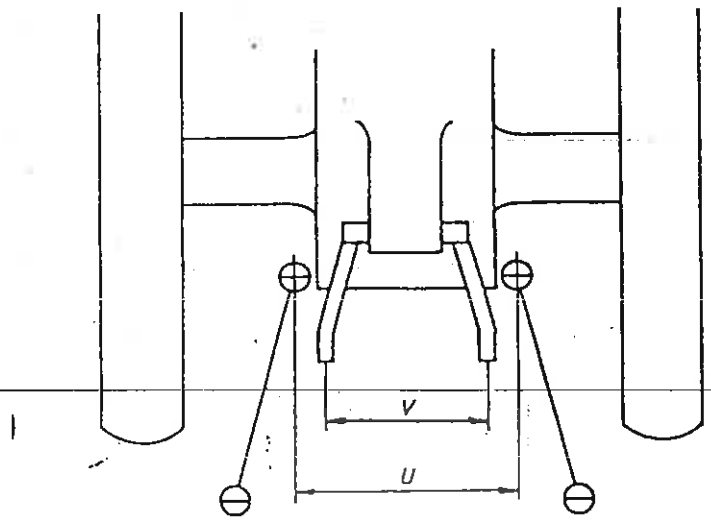
Make, model and type	: NEWHOLLAND Lift-O-matic
Type of hydraulic system	: Open center system
Type and number of cylinders	: 1, single acting
Type of linkage lock for transport	: Hydraulic
Relief valve pressure setting	: 19.4-19.9 MPa
Opening pressure of cylinder safety valve	: 23.4-24.5 MPa
Lift pump type	: Gear 087 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	:1 and 2,ISO standard 730/1-1994 Corrigendum 1:1995
Category adapter	: None

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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)	970	970
Distance of lift arm pivot point from rear wheel axis			
- Horizontally	(a)	-17	-17
- Vertically	(b)	295	295
Horizontal distance between the two lower link points	(u)	510	510
Horizontal distance between the two lift arm end points	(v)	505	505
Length of upper link	(S)	from 635to 975	780
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)	57	57
- vertically	(f)	205	205
Distance of lower link pivot points to lift rod pivot points on lower links	(D)	455/535	455
Length of lift rods	(L)	from 510 to 608	595
Height of lower hitch points relative to the rear wheel axis			
- in low position	(h)	from 275 to 545	505
- in high position	(H)	from 159 to 345	182
Height above ground of lower hitch points when locked in transport position (*)		Any height within lift range	

(*) Assuming r = 695 mm tire dynamic radius index of ISO 4251-1:1998

1.7 SWINGING DRAWBAR

Type	: Clevis
Height above ground;	
Maximum	: 505 mm
Minimum	: 395 mm
Type of adjustment	: reversing
Distance of hitch point from rear – wheel axis horizontally	: 750 mm
Distance of hitch point from p.t.o shaft ends	
Vertically	: 165/275 mm
Horizontally	: 448mm
Lateral adjustment (center of clevis)	
Right-hand	: 82 mm
Left-hand	: 100 mm
Distance of pivot point from rear-wheel axis horizontally	: 122 mm
Diameter drawbar pin hole	: 29 mm
Maximum vertical permissible load	: None

1.8 TRAILER HITCH

Type	: Clevis, adjustable
Hole diameter	: 29 mm
Height above ground	: 855/955 mm
Distance of hitch point from rear – wheel axis, horizontally	: 396 mm
Distance of hitch point from PTO shaft end	
Vertically	: 285 mm
Horizontally	: 94 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, independant

Method of operation :By hand lever operated with ratchet

1.12. WHEELS

Number

Front : 2/steering and driving

Rear : 2/driving

Wheelbase : 2250 mm

Track width adjustment

	Minumum mm	Maximum mm	Adjustment method
Front	1530	1955	reversing wheels and off-set lug rims
Rear	1500	2000	reversing wheels and off-set lug rims

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1.13 PROTECTIVE, STRUCTURE

Make, model and type : NEWHOLLAND, TD-KAB-1

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 : Cab

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 vinlex 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	1265 (1113)*	145x90	197
Sidelights	1448	110x35	758
Rearlights	1605	90x70	680
Reflector1	1605	50x45	700
Reflector1	610	90x50	565

** in the Case IH*

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2.TEST CONDITIONS

2.1 OVERALL DIMENSIONS (unballasted tractor)

Length mm	Width		Height at top of	
	minimum mm	maximum mm	Protective structure mm	exhaust pipe mm
3856	1928	2428	2555	2485

2.2 GROUND CLEARANCE (unballasted tractor)

Clearance – limiting part :270 mm (swinging drawbar in lowest position)

2.3 TRACTOR MASS (unballasted tractor)

	Without driver kg	with driver kg
Front	1330	1337
Rear	1950	2018
Total	3280	3355

2.4 TYRES AND TRACK WİDTH SPECIFICATIONS

	Front	Rear
Tyres :	GOOD YEAR	LASSA
Dimensions	11.2-24	16.9-30
Ply rating	6	6
Type	-	-
Maximum load (tyre manufacturer's)	10.25 kN	18.63 kN
Maximum load (tractor manufacturer's)	10.25kN	18.63kN
Inflation pressure (tyre manufacturer's)	180 kPa	130 kPa
Dynamic radius index	515 mm	695 mm
Chosen track width	1530 mm	1500 mm

2.5 OILS AND LUBRICATION

2.5.1 Capacity and change interval

	Capacity dm^3	Oil change h	Filter Change h
Engine	11.7	200	400
Gear box	46	1600	400
Rear axle *			
Final drive (rear) *			
Final drive (front)	5.3	-	-
Hydraulic system *			
Steering	1.8	-	800

* Common with gear box

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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 : 24/01-05/02/2002, 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						
45.7	2550	626	11.38	13.88	249	3.29
3.1.2. Power at rated engine speed						
45.2	2500	614	11.20	13.67	248	3.30
3.1.3. Standard Power Take-off speed (540 ± 10 rev/min)						
42.0	2200	540	10.21	12.46	243	3.37
3.1.4. PART LOADS						
3.1.4.1.The torque corresponding to maximum power at rated engine speed						
45.2	2500	614	11.20	13.67	248	3.30
3.1.4.2. 85% of torque obtained in 3.1.4.1.						
41.5	2693	661	10.56	12.87	254	3.22
3.1.4.3. 75% of torque defined in 3.1.4.2.						
31.4	2717	667	8.62	10.52	275	2.98
3.1.4.4. 50% of torque defined in 3.1.4.2.						
21.0	2728	670	6.25	7.63	298	2.75
3.1.4.5. 25% of torque defined in 3.1.4.2.						
10.5	2737	672	4.45	5.43	424	1.93
3.1.4.6. No load						
0	2746	674	3.16	3.86	-	-

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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						
42.0	2200	540	10.21	12.46	243	3.37
3.1.5.2. 85% of torque obtained in 3.1.5.1.						
38.0	2336	573	9.11	11.11	240	3.42
3.1.5.3. 75% of torque defined in 3.1.5.2.						
29.0	2377	584	7.42	9.05	256	3.20
3.1.5.4. 50% of torque defined in 3.1.5.2.						
19.6	2409	591	5.62	6.86	287	2.86
3.1.5.5. 25% of torque defined in 3.1.5.2.						
9.8	2423	595	3.93	4.80	401	2.04
3.1.5.6. No load						
0	2448	601	2.53	3.09	-	-

Maximum engine speed at no load : 2746 rev/min
Torque at maximum power(equivalent crank shaft)
- At rated engine speed :173.3 Nm
- At 2-hour test :171.1 Nm

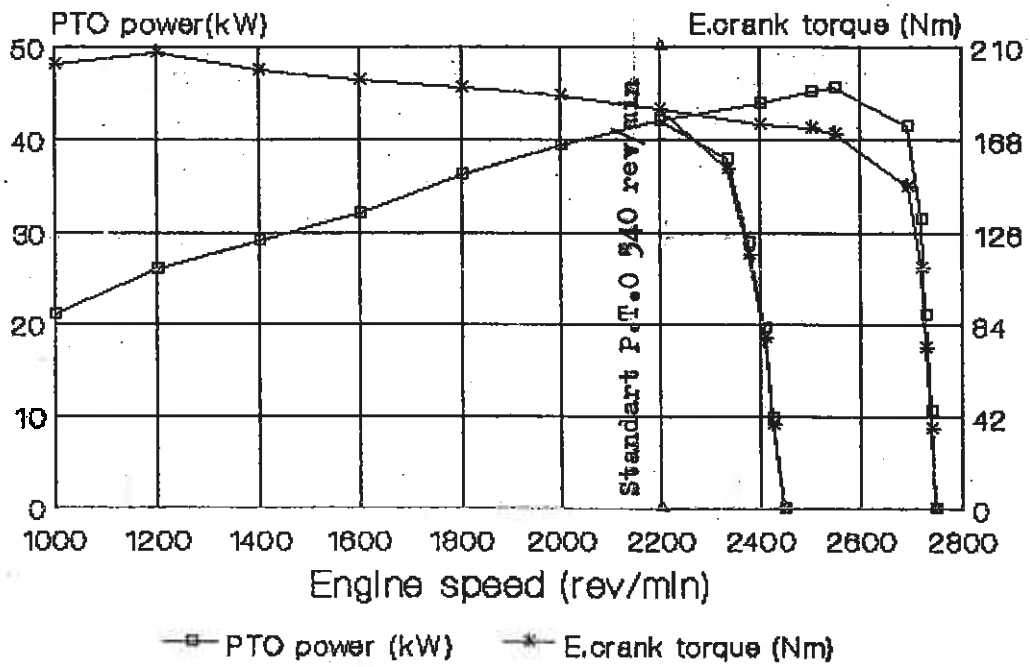
Maximum torque :207.8 Nm(1200 rev/min engine speed)

Mean atmospheric conditions
- Temperature : 20 ^{0}C
- Pressure : 92.8 kPa
- Relative humidity : 36%

Maximum temperatures (°C)
- Cooling water : 76
- Engine oil : 117
- Fuel : 36
- Engine air intake : 28

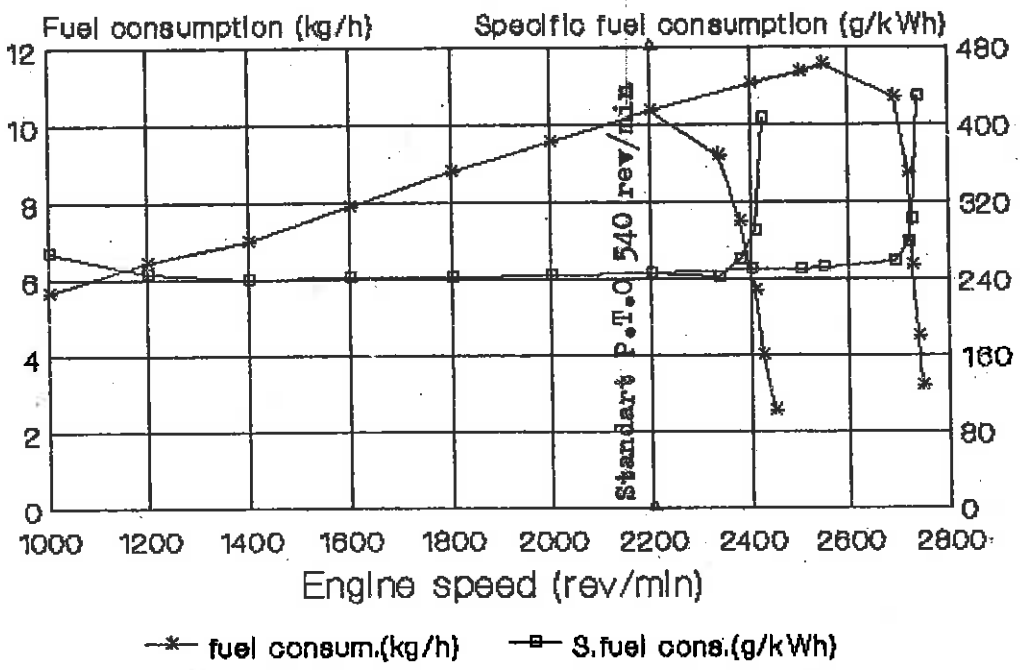
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PTO Power



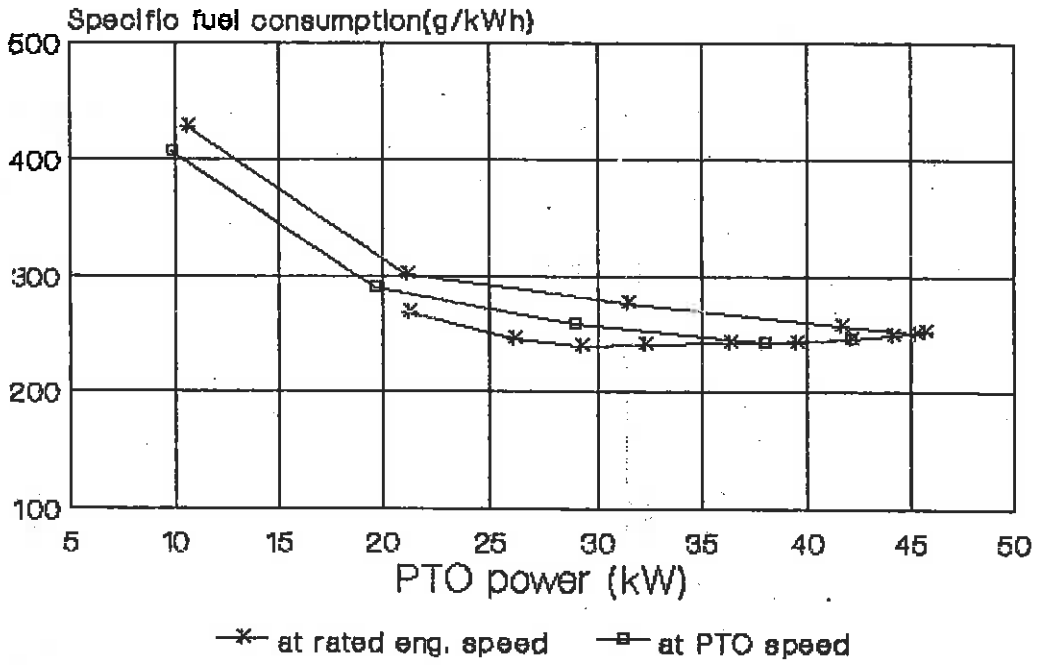
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3.2 HYDRAULIC POWER AND LIFTING FORCE

Date of tests : 15.02.2002

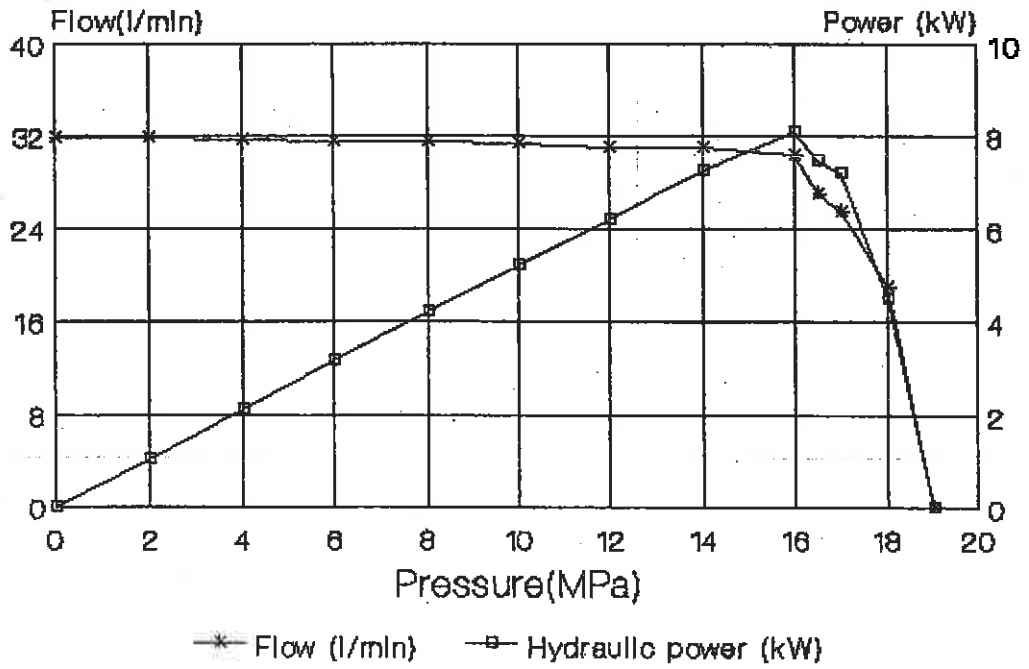
3.2.1 Hydraulic power test

Sustained pressure with relief valve open : 19.0MPa

Pump delivery rate at minimum pressure : 31.8 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	25.5	17.1	7.3
Flow rate and hydraulic pressure corresponding to maximum hydraulic power	30.4	16.0	8.1

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	190	190
Vertical movement	mm	687	860
Maximum corrected force exerted through full range	kN	22.4	15.3
Corresponding pressure of hydraulic fluid	MPa	17.1	17.1
Moment about rear wheel axis	kNm	23.0	25.0
Maximum tilt angle of mast from vertical	Degrees	-	11°50'

Lifting heights relative to the horizontal lower links

mm	-395	-300	-200	-100	0	+100	+200	+300	+387	+400	+465

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:17.1 MPa

kN	-	22.7	23.1	23.6	23.6	23.4	23.1	23.2	22.4	-	-

At the frame: Corresponding pressure: 17.1 MPa

kN	20.1	20.0	19.9	19.5	19.1	18.7	18.3	17.7	17.7	17.6	15.3

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REPORT NO : 84/2053 TGK.4

3.3 DRAWBAR POWER AND FUEL CONSUMPTION (unballasted tractor)

Date of tests : 10-14/06/2002
Type of track: Concrete

Height of drawbar above ground	Tyre inflation pressure	
	Front	Rear
375 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 %	Press ure kPa
3.3.1. MAXIMUM POWER IN TESTED GEARS (Unballasted tractor)													
I-1	11.0	21.03	1.89	2691	15.1	564	1.47	54	73	81	24	55	92.0
I-2	17.3	21.52	2.90	2675	15.0	437	1.89	54	73	81	24	55	92.0
I-3	22.3	20.56	3.90	2652	15.1	391	2.12	54	73	81	24	55	92.0
II-1	23.9	19.76	4.35	2652	15.0	385	2.15	54	73	81	24	55	92.0
I-4	31.3	20.09	5.60	2620	13.9	365	2.27	54	73	81	24	55	92.0
II-2	33.1	17.91	6.66	2490	11.4	346	2.39	54	73	81	24	55	92.0
II-3	33.5	12.93	9.34	2514	8.4	343	2.41	54	73	81	24	54	92.0
III-1	36.8	12.52	10.57	2513	7.4	313	2.65	54	73	81	24	54	92.0
II-4	37.1	9.74	13.70	2511	5.9	310	2.67	54	73	81	24	54	92.0
III-2	35.0	7.58	16.66	2483	4.2	328	2.52	54	73	81	24	54	92.0
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													
II-4	37.1	9.74	13.70	2511	5.9	310	2.67	54	73	81	24	42	92.0
3.3.2.1.1. 75 % of pull at maximum power at rated speed													
II-4	29.6	7.31	14.59	2658	5.3	379	2.19	54	73	81	24	42	92.0
3.3.2.1.2. 50 % of pull at maximum power at rated speed													
II-4	20.3	4.87	14.99	2702	4.3	451	1.83	54	73	81	24	42	92.0
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-2	29.6	7.28	14.66	2206	5.1	336	2.46	54	73	81	24	42	92.0
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-2	20.6	4.96	14.97	2233	4.3	385	2.15	54	73	81	24	42	92.0
3.3.2.2. in selected gear nearest to 7.5 km/h at rated speed													
II-2	33.1	17.91	6.56	2490	11.4	346	2.39	54	73	81	22	42	92.0
3.3.2.2.1. 75 % of pull at maximum power at rated speed													
II-2	27.2	13.43	7.29	2695	9.1	397	2.08	54	73	81	22	36	92.0
3.3.2.2.2. 50 % of pull at maximum power at rated speed													
II-2	19.1	8.96	7.66	2730	7.0	437	1.89	54	73	81	22	36	92.0
3.3.2.2.3. Next higher gear at reduced engine speed; same pull and travelling speed as in 3.3.2.2.1.													
II-3	27.0	13.38	7.27	1970	8.8	316	2.62	54	73	81	22	36	92.0
3.3.2.2.4. Next higher gear at reduced engine speed; same pull and travelling speed as in 3.3.2.2.2.													
II-3	18.9	8.95	7.60	2045	7.0	419	1.96	54	73	81	22	36	92.0

4.OPTIONAL TESTS : None

5. REPAIRS : None

6. REMARKS : the atmospheric pressure 92.0 kPa and 92.8 kPa less than 96.6 kPa fixed in the OECD Code

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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 25/ 06/2002

Dr. Hamdi TAŞBAŞ
Director