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

TEST REPORT

REPORT NO: 316/2076 -TGK.12
OECD Approval No: 2/2 025
Date of Approval : 22 nd 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 95 D – 4 WD (Turbo)
(12 Speeds – 40 km/h)



CASE IH JX 95 – 4 WD (Turbo)
(12 speeds – 40 km/h)

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

JULY - 2002
ANKARA

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Tel: (0312) 315 65 74 - 315 56 85 Fax: (0312) 315 04 66
e mail: tamtest @ankara.tagem.gov.tr

REPORT NO : 316/2076 TGK.12

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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 95 D (4WD) and Case IH JX 95 (4WD) 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 95 D (4WD)

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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	: NEWHOLLAND
Model (trade name)	: TD 95 D
Type	: 4 WD
1.1.2. Serial No	
First Serial No or Prototype	: HFD000042
Serial No	: HFD000042
1.1.3.Other Specifications;	
Model (s) for other countries	: None
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 5 C 7 AB

1.2 ENGINE

Make, Model and Type	:IVECO 8045.25-K513, water cooled, direct injection 4 cycles, diesel engine
Serial No.	: 795774

1.2.1 Cylinders

Number/disposition	: 4, vertical in line
Bore/stroke	: 104 mm/115 mm
Capacity	: 3908 cm^3
Compression rate	: 17/1
Arrangement of valves	: Overhead
Cylinder liners	: Dry, replaceable

1.2.2 Supercharging

Make, Model and Type	:GARRETT, A/R 42
Pressure	:97±5 kPa

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 786 or BOSCH, VE 4/11 F 1250 LV 15075, rotative
Serial no	: 015563
Manufacturer's production setting of injection pump	
Flow rate*	: 18.45 -19.65 l/h at rated engine speed and full load
Timing	: 5° before T.D.C
Make,type and model of injectors	:BOSCH 43291 494
Injection pressure	: 26.0 –27.2 MPa

** manufacturer set because of atmospheric pressure (See page 25)*

1.2.4 Governor

Make, model and type	: BOSCH, hydraulic automatic, in corporated in the fuel pump
Governed range of engine speed	: 650 ± 25 / 2725 ± 25 rev/min
Rated engine speed	: 2500 rev/min

1.2.5 Air cleaner

Pre-cleaner	:None
Main cleaner	
Make, model and type	: DONALDSON, P.77.2580, 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	: 6
Fan diameter	: 447 mm
Coolant capacity	: 16 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 :DENSO, 63321744, A 1151 85A

power : 1.0 kW

Battery of accumulators
Number : 1

Rating : 105 Ah (20 h) 450 A

1.2.10 Exhaust system

Make, model and type : NEW HOLLAND 5182593 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 : 304.8 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,260601 Z, 51560372, category 2.

Differantial lock

Type : Mechanical

Method of engagement : Pedal operated

Method of disengagement: Self disengaged

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	329.032	328.048	2.21	2.21
2		226.385	225.708	3.21	3.22
3		157.038	156.568	4.62	4.64
4		109.625	109.297	6.62	6.64
1	II Normal	140.874	140.453	5.15	5.17
2		96.926	96.636	7.49	7.51
3		67.235	67.034	10.79	10.83
4		46.936	46.795	15.46	15.51
1	III Fast	59.838	59.659	12.13	12.16
2		41.170	41.047	17.63	17.68
3		28.559	28.474	25.41	25.49
4		19.935	19.877	36.40	36.51

*** Calculated with a tyre dynamic index of 770 mm (ISO 4251-1:1998)**

Number of revolutions of front wheels for one revolution of rear wheels : 1.305

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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	1817.408	-	0.40	-
2		1250.439	-	0.58	-
3		867.399	-	0.84	-
4		605.511	-	1.20	-
1	II Creeper	778.120	-	0.93	-
2		535.373	-	1.36	-
3		371.375	-	1.95	-
4		259.249	-	2.80	-
1	I Slow	329.032	328.048	2.21	2.21
2		226.385	225.708	3.21	3.22
3		157.038	156.568	4.62	4.64
4		109.625	109.297	6.62	6.64
1	II Normal	140.874	140.453	5.15	5.17
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4		19.935	19.877	36.40	36.51

* Calculated with a tyre dynamic index of 770 mm (ISO 4251-1:1998)
Number of revolutions of front wheels for one revolution of rear wheels : 1.305

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	329.032	-	2.21	-
2		226.385	-	3.21	-
3		157.038	-	4.62	-
4		109.625	-	6.62	-
1	II Normal	140.874	140.453	5.15	5.17
2		96.926	96.636	7.49	7.51
3		67.235	67.034	10.79	10.83
4		46.936	46.795	15.46	15.51
1	III Fast	59.838	-	12.13	-
2		41.170	-	17.63	-
3		28.559	-	25.41	-
4		19.935	-	36.40	-

* Calculated with a tyre dynamic index of 770 mm (ISO 4251-1:1998)
Number of revolutions of front wheels for one revolution of rear wheels : 1.305

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	: 760 mm
Distance from the median plane of the tractor	: 0 mm
Distance behind rear-wheel axis	: 292 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, in conformity with ISO 500:1991
Height above ground	: 760 mm
Distance from the median plane of the tractor	: 0 mm
Distance behind rear-wheel axis	: 292 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	: 760 mm
Distance from the median plane of the tractor	: 0 mm
Distance behind rear-wheel axis	: 292 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

1.4.1.2 Power take-off proportional to ground speed

	540	750
Travelling distance for 1 revolution of take-off shaft	: 0.648 m	0.502m
Number of power take-off shaft revolutions for one revolution of (rear) driving wheels(18.4R34)	:7.461	9.634
Direction of ratation with forward gear engaged (viewed from behind tractor)	: Clockwise	

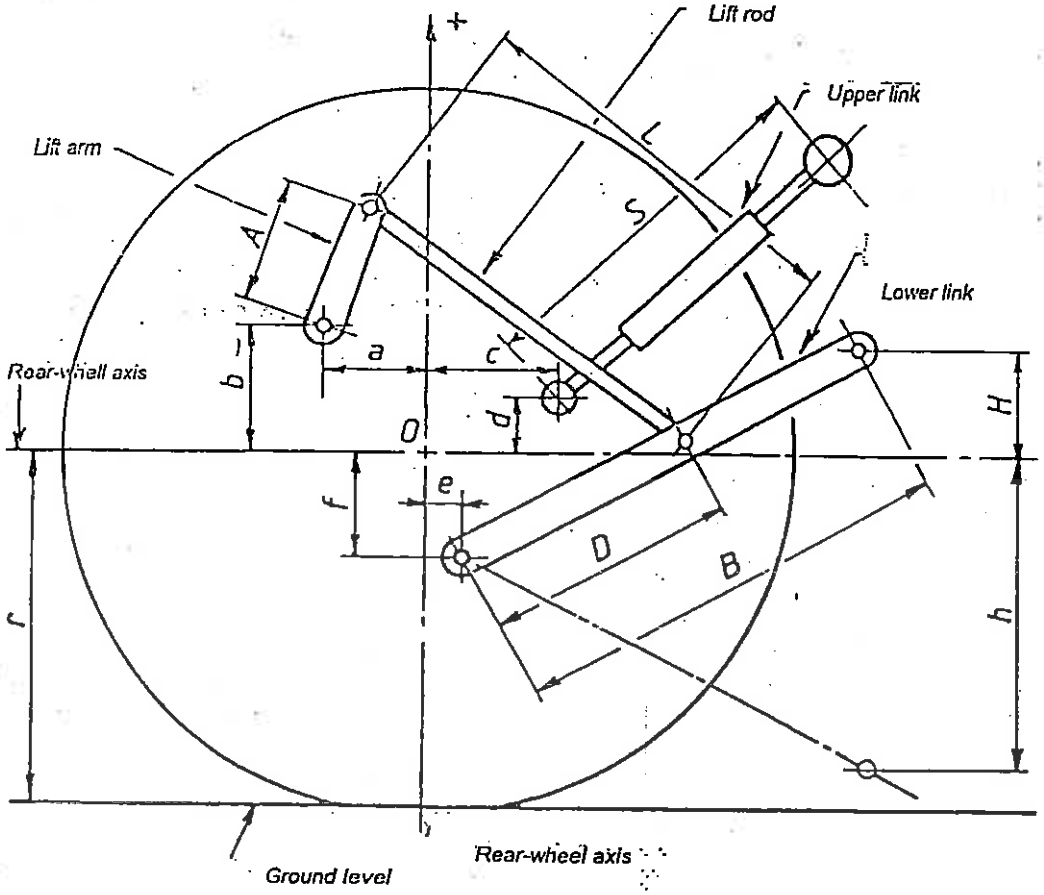
1.5 HYDRAULIC POWER LIFT

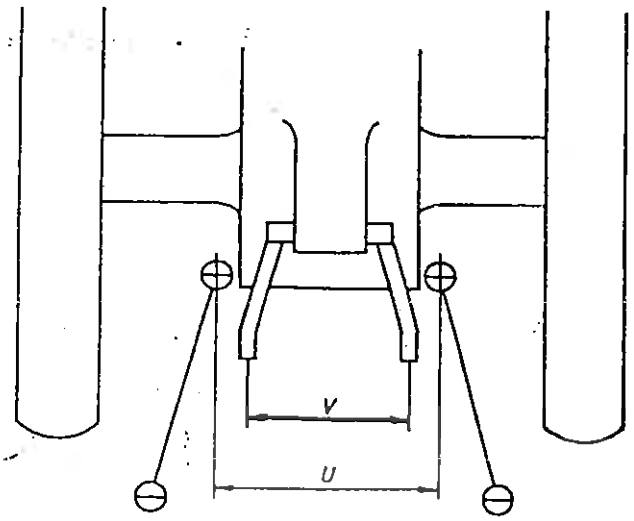
Make, model and type	: NEWHOLLAND Lift-O-matic draft, position and float control operated
Type of hydraulic system	: Open center system
Type and number of cylinders	: 1, single acting
Type of linkage lock for transport	: Hydraulic
Relief valve pressure setting	: 19.4-19.9 MPa
Opening pressure of cylinder 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

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)	250	250
Length of lower links	(B)	970	970
Distance of lift arm pivot point from rear wheel axis			
- Horizontally	(a)	-24	-24
- Vertically	(b)	298	298
Horizontal distance between the two lower link points	(u)	505	505
Horizontal distance between the two lift arm end points			
Length of upper link	(v)	510	510
Distance of upper link pivot point from rear wheel axis	(S)	from 635to 975	830
- horizontally			
- vertically			
Distance of lower link pivot point from rear wheel axis	(c)	161/176	176
- horizontally	(d)	203/253	203
- vertically			
Distance of lower link pivot points to lift rod pivot points on lower links	(e)	40	40
	(f)	200	200
Length of lift rods			
Height of lower hitch points relative to the rear wheel axis	(D)	470/550	470
	(L)	from 545 to 665	635
- in low position			
- in high position			
	(h)	from 300 to 625	565
	(H)	from 120 to 340	135
Height above ground of lower hitch points when locked in transport position (*)	Any height within lift range		
(*) Assuming r = 770 mm tire dynamic radius index of ISO 4251-1:1998			

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1.7 SWINGING DRAWBAR

Type	: Clevis
Height above ground;	
Maximum	: 597 mm
Minimum	: 485 mm
Type of adjustment	: reversing
Distance of hitch point from rear – wheel axis horizontally	: 742 mm
Distance of hitch point from p.t.o shaft ends	
Vertically	: 170/275 mm
Horizontally	: 450mm
Lateral adjustment (center of clevis)	
Right-hand	: None
Left-hand	: None
Distance of pivot point from rear-wheel axis horizontally	: 108 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	: 980/1070 mm
Distance of hitch point from rear – wheel axis, horizontally	: 385 mm
Distance of hitch point from PTO shaft end	
Vertically	: 275 mm
Horizontally	: 100 mm
Maximum vertical permissible load	: None

1.9 HOLED DRAWBAR :None

1.10 STEERİNG

Make, model and type :NEW HOLLAND, 087 BOSCH 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 : 2332 mm

Track width adjustment

	Minumum mm	Maximum mm	Adjustment method
Front	1630	1955	reversing wheels and off-set lug rims
Rear	1508	2008	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 : 95 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	1350 (1198)*	145x90	198
Sidelights	1535	110x35	820
Rearlights	1675	90x75	680
Reflector 1	1675	55x45	700
Reflector 2	710	90x55	550

* 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
4000	1975	2475	2645	2560

2.2 GROUND CLEARANCE (unballasted tractor)

Clearance – limiting part :380 mm (swinging drawbar in lowest position)

2.3 TRACTOR MASS (unballasted tractor)

	Without driver kg	with driver kg
Front	1484	1496
Rear	2160	2223
Total	3644	3719

2.4 TYRES AND TRACK WİDTH SPECIFICATIONS

	Front	Rear
Tyres :	GOOD YEAR	PIRELLI
Dimensions	14.9 R 24	18.4 R 34
Ply rating	131-A8	144 A8
Type	Radyal	Radyal
Maximum load (tyre manufacturer's)	19.12 kN	27.45 kN
Maximum load (tractor manufacturer's)	19.12kN	27.45kN
Inflation pressure (tyre manufacturer's)	160 kPa	160 kPa
Dynamic radius index	590 mm	770 mm
Chosen track width	1630 mm	1508 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

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						
62.1	2350	577	14.78	17.87	238	3.48
3.1.2. Power at rated engine speed						
60.9	2500	614	15.08	18.24	248	3.34
3.1.3. Standard Power Take-off speed (540 ± 10 rev/min)						
60.9	2200	540	14.00	16.93	230	3.60
3.1.4. PART LOADS						
3.1.4.1.The torque corresponding to maximum power at rated engine speed						
60.9	2500	614	15.08	18.24	248	3.34
3.1.4.2. 85% of torque obtained in 3.1.4.1.						
53.1	2560	629	13.27	16.05	250	3.31
3.1.4.3. 75% of torque defined in 3.1.4.2.						
40.3	2595	638	10.71	12.95	266	3.11
3.1.4.4. 50% of torque defined in 3.1.4.2.						
27.2	2635	647	8.29	10.02	305	2.72
3.1.4.5. 25% of torque defined in 3.1.4.2.						
13.8	2665	655	6.05	7.32	438	1.89
3.1.4.6. No load						
0	2709	666	3.97	4.79	-	-

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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						
60.9	2200	540	14.00	16.93	230	3.60
3.1.5.2. 85% of torque obtained in 3.1.5.1.						
54.3	2308	567	12.35	14.94	227	3.64
3.1.5.3. 75% of torque defined in 3.1.5.2.						
41.6	2356	579	10.37	12.54	249	3.32
3.1.5.4. 50% of torque defined in 3.1.5.2.						
28.3	2411	592	7.78	9.40	275	3.01
3.1.5.5. 25% of torque defined in 3.1.5.2.						
14.4	2454	603	5.56	6.73	386	2.14
3.1.5.6. No load						
0	2518	619	3.41	4.12	-	-

Maximum engine speed at no load : 2709 rev/min
Torque at maximum power(equivalent crank shaft)
- At rated engine speed :232.9 Nm
- At 2-hour test :252.5 Nm

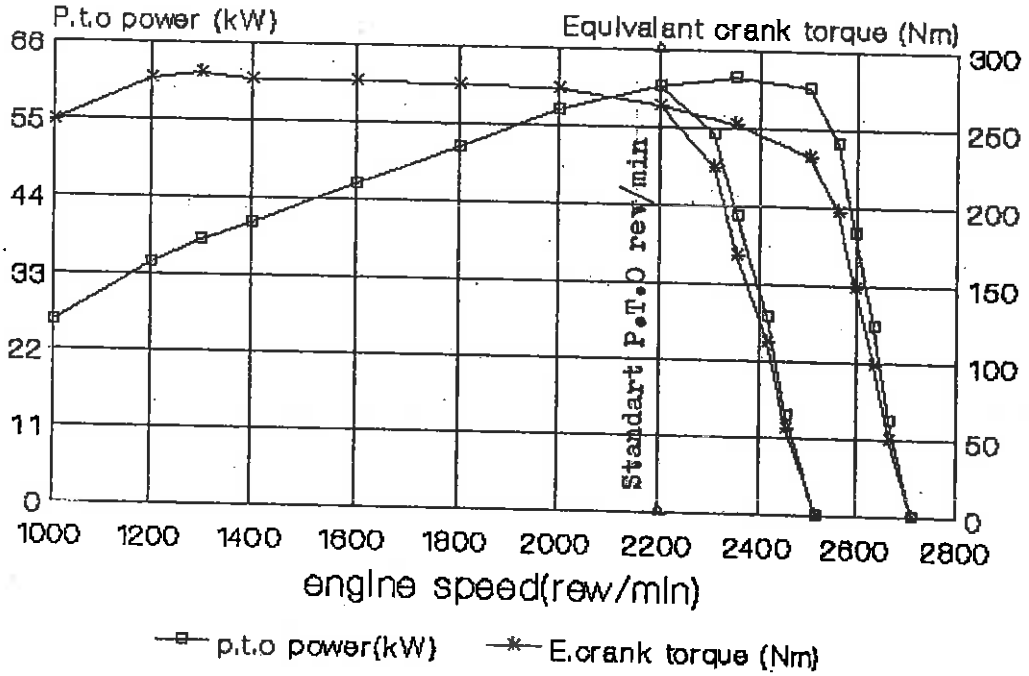
Maximum torque :279.8 Nm(1300 rev/min engine speed)

Mean atmospheric conditions
- Temperature : 20 °C
- Pressure : 91.5 kPa
- Relative humidity : 55%

Maximum temperatures (°C)
- Cooling water : 76
- Engine oil : 124
- Fuel : 40
- Engine air intake : 24

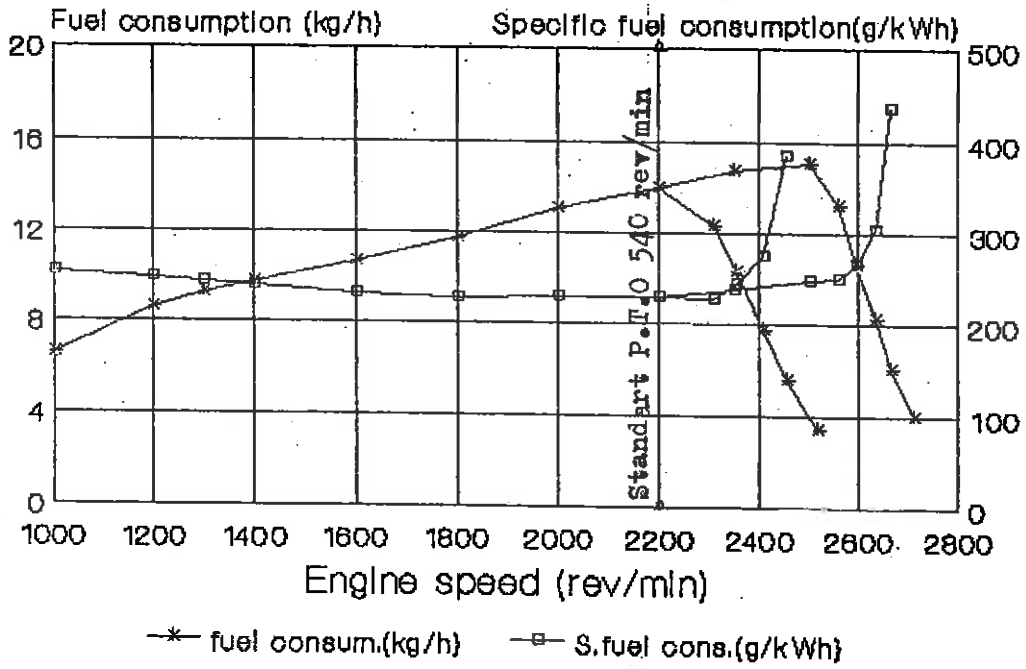
TARIM VE KÖYİŞLERİ BAKANLIĞI
TARIM ALET VE MAKİNALARI TEST MERKEZİ MÜDÜRLÜĞÜ
Tel: (0312) 315 65 74 - 315 56 85 Fax: (0312) 315 04 66
e mail: tamtest @ankara.tagem.gov.tr

p.t.o Power



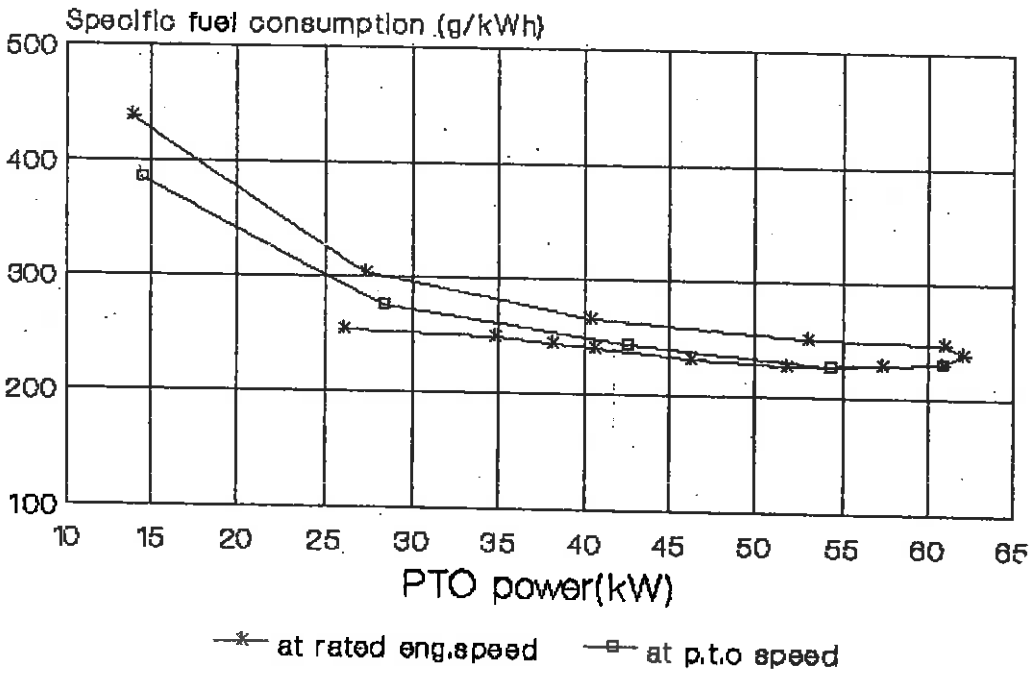
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3.2 HYDRAULIC POWER AND LIFTING FORCE

Date of tests : 29.03.2002

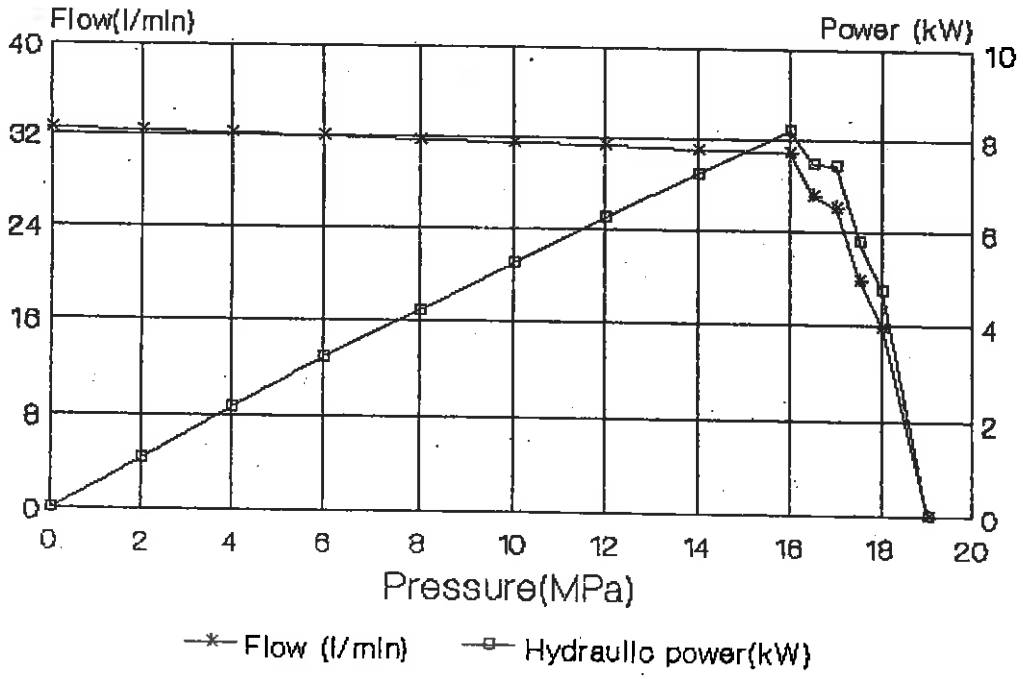
3.2.1 Hydraulic power test

Sustained pressure with relief valve open : 19.0MPa

Pump delivery rate at minimum pressure : 32.9 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	26.0	17.1	7.4
Flow rate and hydraulic pressure corresponding to maximum hydraulic power	30.8	16.0	8.2

Tapping point used for test :Rear of tractor, 4
Temperature of hydraulic fluid :58 °-62 °C
Opening/closing pressure of the unloading valve: -



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	700	855
Maximum corrected force exerted through full range	kN	23.0	17.0
Corresponding pressure of hydraulic fluid	MPa	17.1	17.1
Moment about rear wheel axis	kNm	23.2	27.5
Maximum tilt angle of mast from vertical	Degrees	-	12°

Lifting heights relative to the horizontal lower links											
mm	-435	-365	-300	-200	-100	0	+100	+200	+300	+335	+420
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	-	23.8	24.4	24.6	24.7	24.6	24.3	23.7	23.3	23.0	-
At the frame: Corresponding pressure: 17.1 MPa											
kN	23.7	22.7	22.3	21.8	21.7	20.5	19.6	19.1	18.5	18.4	17.0

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REPORT NO : 316/2076 TGK.12

3.3 DRAWBAR POWER AND FUEL CONSUMPTION (unballasted tractor)

Date of tests : 01-03/07/2002
Type of track: Concrete

Height of drawbar above ground	Tyre inflation pressure	
	Front	Rear
460 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	Temperature °C	Relative humidity %	Pressure kPa
3.3.1. MAXIMUM POWER IN TESTED GEARS (Unballasted tractor)													
I-1	11.8	20.09	2.12	2680	15.0	618	1.34	40	75	95	24	40	92.0
I-2	17.1	20.21	3.04	2659	15.1	497	1.66	40	75	95	24	40	92.0
I-3	24.7	20.41	4.36	2644	15.0	421	1.97	40	75	95	24	40	92.0
II-1	27.0	20.03	4.85	2636	15.1	402	2.06	40	80	100	24	40	92.0
I-4	33.3	19.26	6.23	2629	15.1	387	2.14	40	80	100	24	40	92.0
II-2	37.7	19.40	6.99	2609	15.0	362	2.28	43	80	100	24	40	92.0
II-3	45.9	17.88	9.25	2355	13.5	312	2.65	43	83	100	24	40	92.0
III-1	50.1	16.95	10.65	2350	11.2	291	2.84	43	83	100	24	40	92.0
II-4	48.0	12.51	13.82	2355	9.8	302	2.74	43	83	100	24	40	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													
III-1	47.6	15.00	11.42	2495	10.3	307	2.70	40	76	95	24	37	91.9
3.3.2.1.1. 75 % of pull at maximum power at rated speed													
III-1	37.8	11.25	12.08	2577	8.2	356	2.32	40	76	98	24	37	91.9
3.3.2.1.2. 50 % of pull at maximum power at rated speed													
III-1	25.9	7.50	12.41	2602	6.6	407	2.03	40	76	98	24	37	91.9
3.3.2.1.3. Next higher gear at reduced engine speed; same pull and travelling speed as in 3.3.2.1.1.													
II-4	37.3	11.25	11.93	1981	7.4	302	2.74	40	76	98	24	37	91.9
3.3.2.1.4. Next higher gear at reduced engine speed; same pull and travelling speed as in 3.3.2.1.2.													
II-4	26.0	7.58	12.37	2018	5.8	321	2.58	40	76	98	24	37	91.9
3.3.2.2. in selected gear nearest to 7.5 km/h at rated speed													
II-2	37.7	19.40	6.99	2609	15.0	362	2.28	43	80	103	25	38	91.7
3.3.2.2.1. 75 % of pull at maximum power at rated speed													
II-2	29.9	14.55	7.40	2632	10.8	378	2.19	43	80	103	25	38	91.7
3.3.2.2.2. 50 % of pull at maximum power at rated speed													
II-2	20.8	9.70	7.72	2710	9.6	419	1.97	43	80	103	25	38	91.7
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	30.0	14.56	7.42	1821	10.3	296	2.79	43	80	103	25	38	91.7
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	20.6	9.56	7.75	1861	9.3	316	2.62	43	80	103	25	38	91.7

4.OPTIONAL TESTS : None

5. REPAIRS :Manufacturer set the flow rate of injection pump from 57.77-59.65mm^3/stroke to 59.57-64.68 mm^3/stroke at 2500 rev/min engine speed because of athmospheric pressure

6. REMARKS : The atmospheric pressure 91.5 kPa and 91.7 kPa less than 96.6 kPa fixed in the OECD Code

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REPORT NO : 316/2076 TGK.12

TEST COMMISSION

Bekir İLBAN
Agricultural Engineer

Ömer LİBEVECİOĞLU
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