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

Report on test in accordance with the O.E.C.D. STANDARD CODE 2 for the Official Testing of Agricultural Tractors

Date of Approval : 01.Dec.1998
O.E.C.D. APPROVAL NUMBER : 2/1797



Make:	**FIAT**
Model :	**55-56/8**
Type:	**2 WD**
Submitted for Test by :	**Türk Traktör ve Ziraat Makinaları A.Ş. Gazi - ANKARA**
Test No:	**30/1286 T.G.8**
Date:	**April 1997**

ANKARA

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Tel: (0312) 315 65 74 - 315 56 85 Fax: (0312) 315 04 66
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FIAT 55-56 / 8
TEST NO :30/1286 TG.8

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This report describe the official testing of an agricultural tractor done according to the OECD test standarts only without the consideration of any special field activities.

UNITS

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

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Tractor Manufacturer's name and address	: Türk Traktör ve Ziraat Makinaları A.Ş. Güvercin Yolu No: 12 Gazi /Ankara Tel : 211 01 90 Fax: 211 03 73
Location of tractor assembly	: The Manufacturer
Submitted for test by	: The Manufacturer
Selected for test by	:The Manufacturer with the Agreement of DAEMTC
Place of running in	: DAEMTC
Duration of running in	: 23 Hours
Location of test	: DAEMTC – Yenimahalle- Ankara-Turkey

1. SPECIFICATIONS OF TRACTOR

1.1 IDENTIFICATION

Make	: FIAT
Model	: 55- 56/8
Type	: 2 WD
No. of Driving Wheels	: Rear wheels drive (2WD)
Serial No	: 564101
First Serial No	: 550000

1.2 ENGINE

Make	: T.T.F
Model	: 8035*06*307
Type	:Water – cooled, direct injection four – stroke, naturally aspirated diesel engine
Serial No.	: 022367

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1.2.1 Cylinders

Number/disposition	: 3, vertical in-line
Bore/stroke	: 100 mm / 115 mm
Capacity	: 2710 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-diaphram, mechanical control
Make, type and model of fuel filter	: C.A.V & LUCAS replaceable paper element cartridge
Capacity of fuel tank	: 61 dm^3
Make, type and model of injection pump	: LUCAS, DPS rotary 07463 LOG, 663
Serial no	: 8522 A 161 A
Manufacturer's production setting of injection pump	
Flow rate	: 52-55 cm^3 / 1000 stroke at 1500 rev/min pump speed and full load

Make,type and model of injectors : BOSCH (local) KBEL 83 S 35, multi hole

Injection pressure : 23 MPa ± 0,8 MPa

1.2.4 Governor

Make, model and type of fuel filters	: C.A.V, mechanical centrifugal variable speed

Governed range of engine speed : From 650 to 2800 rev/min

Rated engine speed : 2500 rev/min

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1.2.5 Air cleaner

Pre-cleaner

Make, model and type	: FIAT, Centrifugal and with automatic dust draft
Location of air in take	: Behind of the front shutter in main cleaner body

Main cleaner

Make, model and type	: FIAT, oil bath
Maintenance indicator	: None

1.2.6 Lubrication system

Type of feed pump	: Forced feed from gear pump
Type of filters	: Replaceable cardrige and holed metal
Number	: 2

1.2.7 Cooling system

Type of coolant	: Water and anti-freeze
Type of pump	: Centrifugal pump
Specification of fan	: Belt driven
Number of fan blades	: 4
Fan diameter	: 392 mm
Coolant capacity	: 12 dm^3
Type of temperature control	: Thermostat, termometer on instrument panel
System pressure	: 50 kPa

1.2.8 Starting system

Make, model and type	: MAKO, Solenoid engaged
power	: 3.5 kW
cold starting aid	: Flame glow plug in air intake manifold
Safety device	: Operable only when high/low gear range selector is neutral position

1.2.9 Electrical system

Voltage	: 12 V
Generator	:
make,model and type	: MAKO, alternator belt driven
power	: 1 kW
Battery (number of accumulators)	: 1
Rating	: 12 V, 105 Ah at 20 hrs rating

1.2.10 Exhaust system

Make, model and type	: EBERSPAKER, TEK - MAL 10-1990 vertical pipe with silencer
Location	: On left-hand side of engine

1.3 TRANSMISSION

1.3.1 Clutch (travel and power take-off)

Make, model and type	: TÜRK TRAKTOR, 280 D 2B dry dual disc clutch
Number of plates	: 2
Diameter of plates	: 280 mm
Method of operation	: Travelling part, pedal operated; PTO Part, hand lever operated

1.3.2 Gear box

Make, model and type : DÖKTAŞ, T.T.F. 49962, 5556/8 mechanically, syncronized constant mesh gear

Description : As per table

	Forward	Reverse
Number of gears	4	1
Number of ranges/groups	2	2
Total of arrangements	8	2

Arrangement : Gearbox with 4 forward and 1 reverse speed/2 ranges

1.3.3 Rear axle and final drives

Make, model and type : DÖKTAŞ, T.T.F. 121003/50671696 Constant mesh gear type, spur gear final drive

Differantial lock

Type : Mechanical, sliding sleeve

Method of engagement : Pedal operated

Method of disengagement: Self disengaging

1.3.4 Front Axle

Make, model and type :TÜRK TRAKTÖR,telescopic U-type with adjustable track

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1.3.5 Total ratios & travelling speed

Gear no	Group or range	Number of engine revolutions for one revolution of the driving wheel	Nominal travelling speed at rated engine speed of 2500 rev/min km/h (*)
Forward speed			
1	L	200.10	3.01
2	L	130.00	4.63
3	L	90.81	6.64
4	L	70.31	8.57
5	H	55.59	10.85
6	H	36.94	16.32
7	H	25.22	23.90
8	H	19.53	30.87
Reverse speed			
1	L	139.25	4.33
2	H	38.68	15.59

* Calculated with a tyre dynamic index of 640 mm (ISO 4251/1-1992)

L: Low H: High

1.4 POWER TAKE-OFF

1.4.1 Main power take-off

Type : Independent

Method of engagement : By means of dry dual disc clutch with hand lever

Number of shafts : 1

Method of changing power take-off speeds : None

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1.4.1.1 Power take-of proportional to engine speed

540 rev/min

Location	: At rear of tractor
Diameter of power take-off shaft	: 34.9 mm
Number of splines	:6, in conformity with ISO 500/1991
Height above ground	: 645 mm
Distance from the median plane of the tractor	: 0 mm
Distance behid rear-wheel axis	: 442 mm
P.T.O speed at rated engine speed	: 687 rev/min
Engine speed at standard power take-off speed	: 1966 rev/min
Ratio of rotation speeds (engine speed/p.t.o speed)	: 3.64
Power restriction and maximum torque	: None
Direction of rotation (viewed from behind tractor)	: Clockwise

1.4.1.2 Power take-off proportional to ground speed : None

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1.5 POWER LIFT

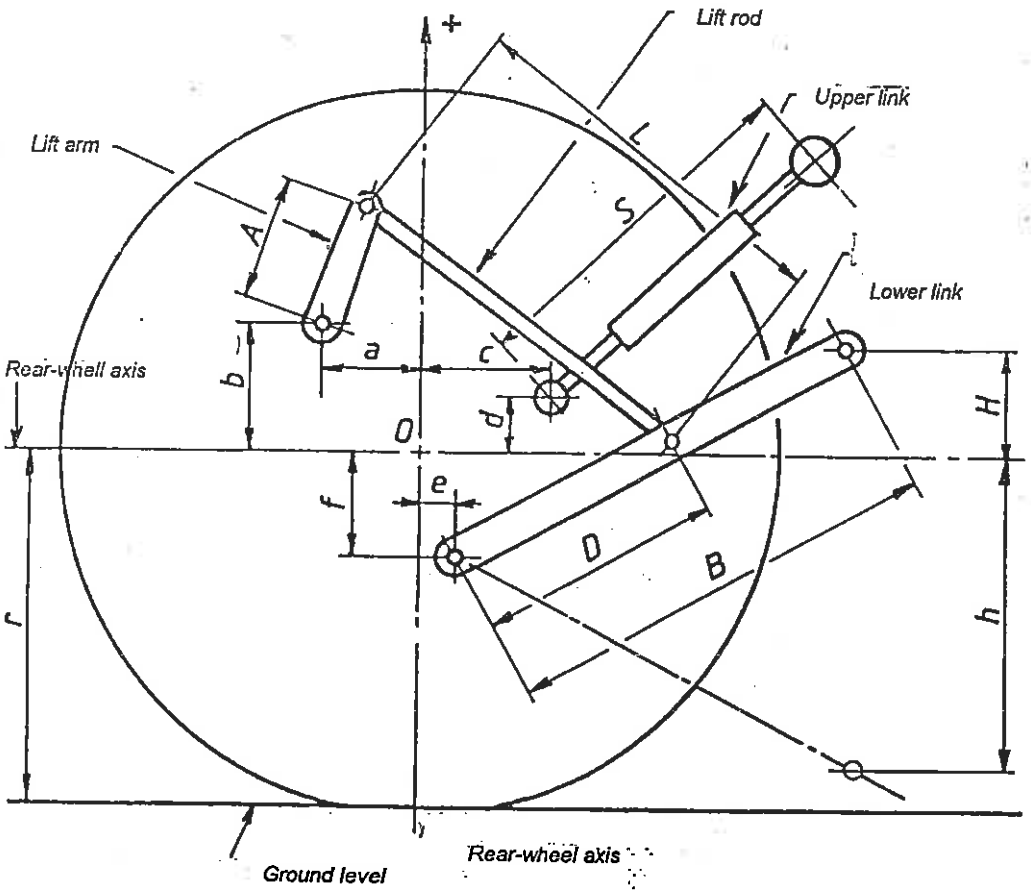
Make, model and type	: COMMERCIAL HYDRAULICS, 4896 09613, draught, and position control operated by two independent levers; lift-o-matic device to raise and to low lower links
Type of hydraulic system	: Open centre system
Type and number of cylinders	: 1, integral single-acting
Type of linkage lock for 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	: HEMA 1P1 – 148 – AB 11, gear pump
Transmission between pump and engine	: Gear driven
Type and number of filters	: 1, replaceable cartrige element
Site of oil reservoir	: Gear box and rear axis
Type, number and location of tapping points	: SAE 3/8" hydraulic female coupler, 2 sets, rear of tractor
Maximum volume of oil available to external cylinders	: 8 dm^3

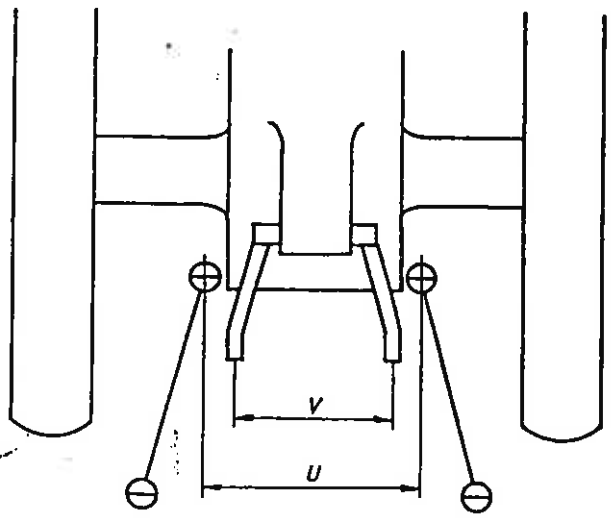
1.6 Three- point linkage

Category	: 1, ISO standard 730-1 (1990) ; 2, ISO standard 730-2 / 1979
Category adapter	: Yes

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linkage geometry





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

		D mension or range (mm)	**Setting** used in test (mm)
Length of lift arms	(A)	640	
Length of lower links	(B)	905	
Distance of lift arm pivot point from rear wheel axis			
- Horizontally	(a)	36	
- Vertically	(b)	333	
Horizontal distance between the two lower link points	(u)	450	
Horizontal distance between the two lift arm end points	(v)	540	
Length of upper link	(S)	from 650 to 930	763
Distance of upper link pivot point from rear wheel axis			
- horizontally	(c)	157	
- vertically	(d)	from 255 to 305	255
Distance of lower link pivot point from rear wheel axis			
- horizontally	(e)	40	
- vertically	(f)	113	
Distance of lower link pivot points to lift rod pivot points on lower links	(D)	410	
Length of the lift rods	(L)	from 460 to 625	575
Height of lower hitch points relative to the rear wheel axis			
- in low position	(h)	from 137 to 606	440
- in high position	(H)	from 137 to 460	165
Height above ground of lower hitch points when locked in transport position (*)	**Any height within lift range**		

(*) Assuming r = 640 tyre dynamic radius index of ISO 4252-1:1992

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1.7 SWINGING DRAWBAR

Type	: Clevis
Height above ground;	
Maximum	: 470 mm
Minimum	: 365 mm
Type of adjustment	: Inverting drawbar
Distance of hitch point from rear – wheel axis horizontally	: 615-660-710 mm
Distance of hitch point from p.t.o shaft ends ;	
Vertically	: 155 – 265 mm
Horizontally	: 355-400-450 mm
Lateral adjustment (centre of clevis);	
Right-hand	: 235 mm
Left-hand	: 235 mm
Distance of pivot point from rear-wheel axis horizontally	: 307 mm
Diameter drawbar pin hole	: 28 mm
Maximum vertical permissible load	: 5.7 kN

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1.8 TRAILER HITCH

Type	: Clevis
Hole diameter	: 28 mm
Height above ground	: 722-795 mm
Distance of hitch point from rear – wheel axis, horizontally	: 345 mm
Distance of hitch point from p.t.o shaft end	
Vertically	: 77-150 mm
Horizontally	: 65 mm
Maximum vertical permissible load	: 5.7 kN

1.9 BELT PULLEY *

Location	: At rear of tractor
Dimension (Diameter x width)	: 250 x 150 mm
Speeds at rated engine speed (2500 rev/min) ;	
Linear	: 17 m/s
Rotational	: 1300 rev/min
Engine speed at standard belt pulley speed (945 m/min)	: 1817 rev/min
Speed of pulley revolutions for one p.t.o. shaft revolutions	: 1.89
Direction of rotation	: Hand-right or hand –left

* Optionally (Not in fitted on the tested tractor)

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1.10 HOLED DRAWBAR None

1.11 STEERİNG

Make, model and type	: FIAT (Local), hydrostatic control with independent hydraulic circuit.
Method of operation;	
Pump	: Gear pump
Cylinder	: One double acting cylinder directly acting on the front wheel
Filter	: Changeable type
Working pressure	: 10 MPa

1.12 BRAKES

1.12.1 Service brake

On the rear axle	:
Make, model and type	: GIRLING, multiple oil bath disc brakes type mechanically
Method of operation	: Operated by two independent pedals
On the front axle	: None
Trailer braking take-off	: None

1.12.2 Parking brake

Type : The parking brake acts on the final part of service brake

Method of operation : Mechanically by hand lever

1.13 WHEELS

Number :

Front : 2, steering

Rear : 2, driving

Wheelbase : 2065 mm

Track width adjustment;

	Minumum mm	Maximum mm	Adjustment method
Front	1410	1870	βy extending of front axle
Rear	1300	1800	reversing wheels and off-set lug rims

1.14 PROTECTIVE, STRUCTURE

Make, model and type : ÇOŞKUNÖZ, 5085960 safety frame

Manufacturer's name and adrees : Organize Sanayi Bölgesi Mavi Cadde No: 5 16140 BURSA-TURKEY

Protective device ;

Cab / frame / rollguard / other : Frame

Tiltable / not tiltable : Not tiltable

OECD approval number : none

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1.15 SEAT

1.15.1 Driver's seat

Make, model and type	: PILOT, 508 71 35 upholstered seat with back rest
Type of suspersion	: Double spring
Type of damping	: Hydraulic
Range of adjustment	
Longitudinal	: 160 mm
Vertical	: 65 mm
Seart and steering wheel reversible	: No
Safety belt	: No

1.15.2 Passenger seat : No

1.16 LIGHTING

	Height above ground of centre mm	Size mm	Distance from outside edge of lights to median plane of tractor mm
Headlights	1065	180x120	250
Sidelights	1440	115x60	867
Rearlights	1440	80x60	745
Reflectors	1180	90x50	860
Workinglights	1560	∅125	525

2.TEST CONDITIONS

2.1 OVERALL DIMENSIONS (unballasted tractor)

Length mm	Width		Height at top of	
	minimum mm	maximum mm	protective structure mm	exhaust silencer mm
3415	1725	2225	2330	2470

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2.2 GROUND CLEARANCE (unballasted tractor) : 305 mm

Clearance – limiting part : swinging drawbar in lowest position

2.3 TRACTOR MASS (unballasted tractor with frame)

	Without driver kg	with driver kg
Front	712	723
Rear	1372	1440
Total	2084	2163

2.4 TYRES AND TRACK WİDTH SPECIFICATIONS

	Front	Rear
Tyres :		
Dimensions	6.50 – 16	14.9 / 13-28
Ply rating	6	6
Type	Diagonal	Diagonal
Maximum load (tyre manufacturer's)	6.15 kN	16.10 kN
Maximum load (tractor manufacturer's)	6.15 kN	16.10 kN
Inflation pressure (tyre manufacturer's)	310 kPa	140 kPa
Dynamic radius index	345 mm	640 mm
Chosen track width	1435 mm	1435 mm

2.5 OILS AND LUBRICATION

2.5.1 Capacity and change interval

	Capacity dm^3	Oilchange h	Filter change h
Engine	7.3	200	400
Gear box	30	1600	400
Rear axle	Common with gear box		
Final drive (rear)	3.3	1600	1600
Hydraulic system	Common with gear box		
Steering	1.8	800	800
Air cleaner with oil bath	0.9	200	400

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2.5.2 Specifications

	Recommended	Used during test
Engine oil Type Viscosity Classification	AMBRA SUPER SAE 20 W/40 API – CC /CD	As recommended
Transmission oils Type Viscosity Classification	TUTELA MULTI F SAE 20 W/40 API – CC /CD	As recommended
Hydraulic oil Type Viscosity Classification	TUTELA MULTI F SAE 20 W/40 API – CC /CD	As recommended
Steering oil and air cleaner Type Viscosity Classification	TUTELA MULTI F SAE 20 W/40 API – CC /CD	As recommended

2.5.3 Grease : P.O süper gres 2

Number of lubrication points : 11

2.6 FUEL

Type : P.O Diesel oil, in conformity with national standard

Density at 15 °C : 0.8309 g/cm^3

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3. COMPULSORY TEST RESULTS

3.1 MAIN POWER TAKE-OFF

Date and location of tests :28.02.1997-06.03.1997 Tarım Alet ve Mak.Test Merkezi Müdürlüğü-ANKARA

Type of dynamometer :AEG Electrical

Power	Speed		Fuel consumption			Specific energy
	Engine	p.t.o	Hourly		Specific	
kW	rev/min		kg/h	l/h	g/kW/h	kWh/ l
3.1.1. MAXIMUM POWER- TWO HOUR TEST						
36.06	2500	687	10.04	12.08	278	2.99
3.1.2. Power at rated engine speed						
36.06	2500	687	10.04	12.08	278	2.99
3.1.3. Standard Power Take-off speed (540 ± 10 rev/min)						
30.28	1966	540	8.75	8.75	289	2.88
3.1.4. PART LOADS						
3.1.4.1.The torque corresponding to maximum power at rated engine speed						
36.06	2500	687	10.04	12.08	278	2.99
3.1.4.2. 85% of torque obtained in 3.1.4.1.						
31.90	2602	715	9.57	11.52	300	2.77
3.1.4.3. 75% of torque defined in 3.1.4.2.						
24.58	2675	735	8.19	9.86	333	2.49
3.1.4.4. 50% of torque defined in 3.1.4.2.						
16.54	2698	741	6.67	8.03	403	2.06
3.1.4.5. 25% of torque defined in 3.1.4.2.						
8.42	2754	757	5.11	6.15	607	1.37
3.1.4.6. No load						
-	2791	767	3.17	3.82	-	-

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Power	Speed		Fuel consumption			Specific energy
	Engine	p.t.o.	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						
30.28	1966	540	8.75	10.53	289	2.88
3.1.5.2. 85% of torque obtained in 3.1.5.1.						
26.19	2000	549	7.20	8.67	275	3.02
3.1.5.3. 75% of torque defined in 3.1.5.2.						
20.11	2048	563	5.84	7.03	290	2.86
3.1.5.4. 50% of torque defined in 3.1.5.2.						
13.68	2090	574	4.61	5.55	337	2.46
3.1.5.5. 25% of torque defined in 3.1.5.2.						
6.94	2119	582	3.45	4.15	497	1.67
3.1.5.6. No load						
0.00	2154	592	2.00	2.41	-	-

Standard specific fuel consumption (g/kWh)

a) 300
b) 403
c) 275
d) 337

Maximum engine speed at no load : 2791 rev/min
Torque at maximum power : 137,82 Nm
Maximum torque : 158,77 Nm (1200 rev/min engine speed)

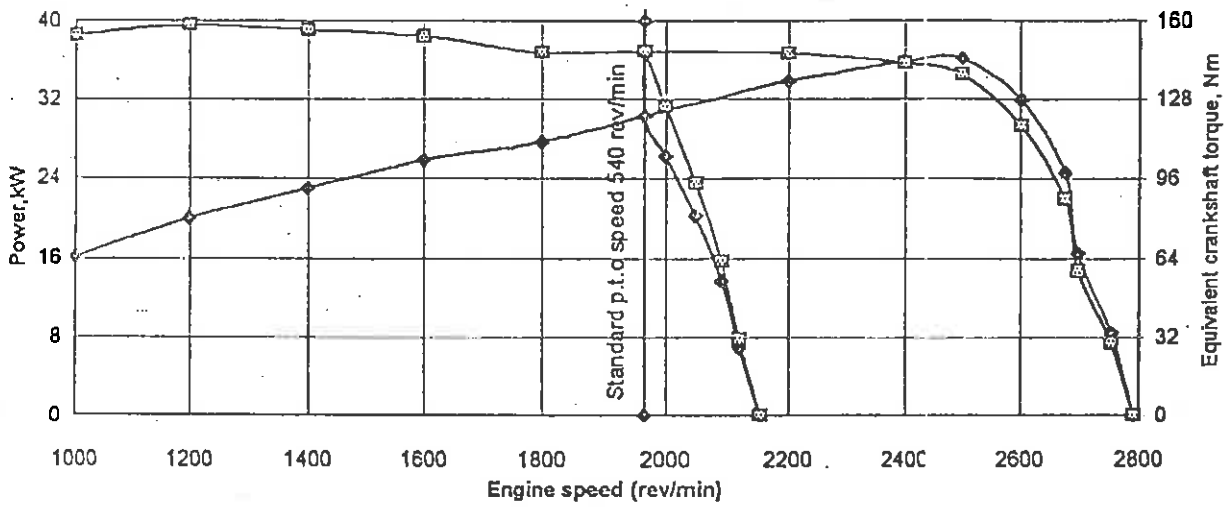
Mean atmospheric conditions
Temperature : 22 °C
Pressure : 91,5 kPa
Relative humidity : 39 %

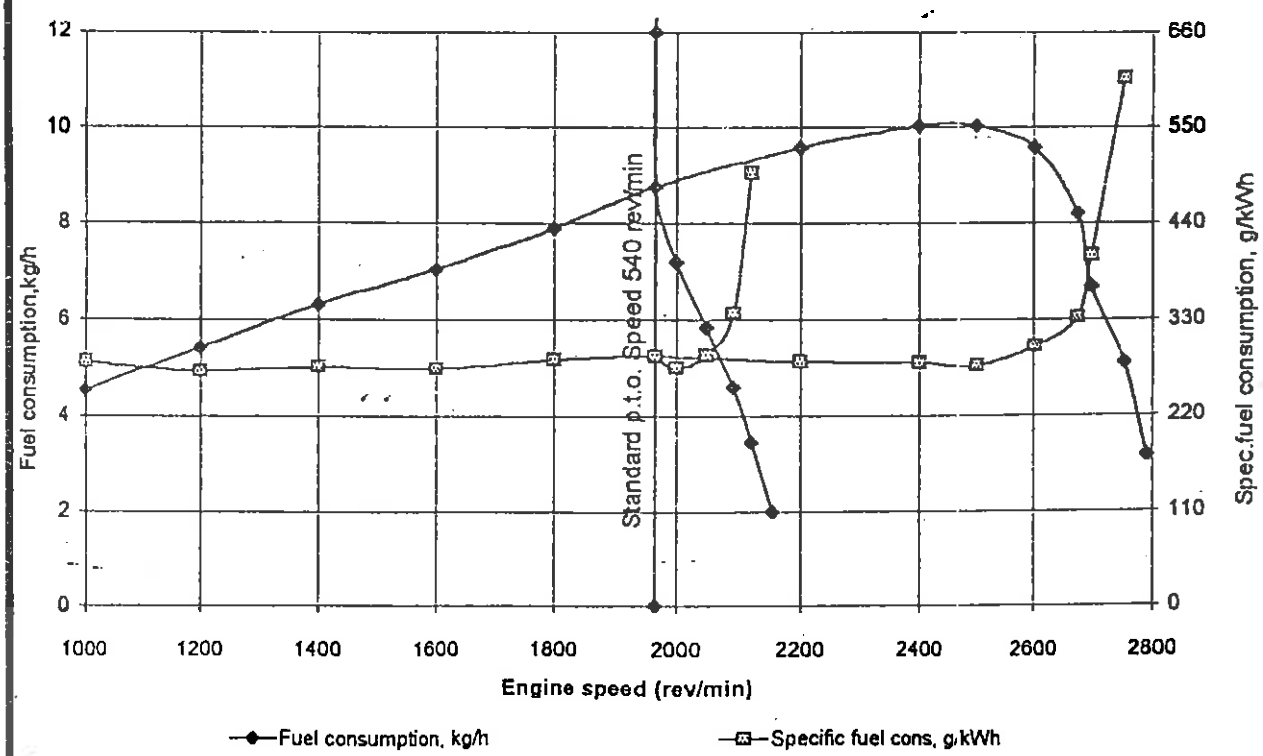
Maximum temperatures (°C)
Cooling water : 85
Engine oil : 80
Hydraulic oil : 65
Fuel : 38
Air inlet : 18

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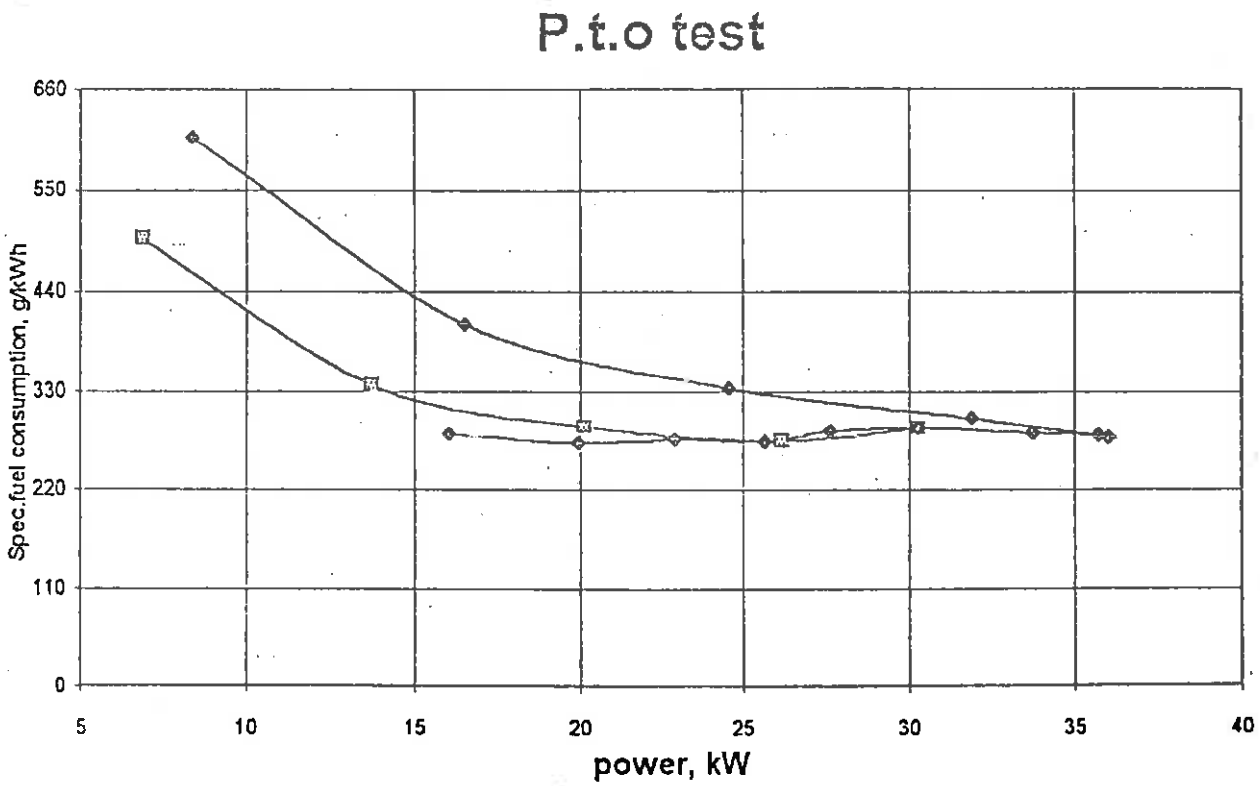
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3.2 HYDRAULIC POWER AND LIFTING FORCE

Date of tests : 16.03.1997

3.2.1 Hydraulic power test

Sustained pressure with relief valve open : 20.0 MPa
Pump delivery rate at minimum pressure : 32.8 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	16.5	18.0	4.95
Flow rate and hydraulic pressure corresponding to maximum hydraulic power	31.4	15.5	8.11

Tapping point used for test :Rear of tractor
Temperature of hydraulic fluid :59-70 °C

3.2.2 Power lift test

		At the hitch point	On the frame
Height of lower hitch point above ground in down position	mm	200	200
Vertical movement	mm	607	617
Maximum corrected force exerted through full range	kN	15.6	12.15
Corresponding pressure of hydraulic fluid	MPa	18.0	18.0
Moment about rear axle	kNm	14.74	18.89
Maximum tilt angle of mast over range of lift	degrees	-	8

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Main connections measurements : Look at drawings and tables in p. 10 and 11.

Lifting heights relative to the horizontal lower links									
mm	-327	-300	-200	-100	0	+100	+200	+280	+290
Lifting forces at hitch points, corrected to 18.0 MPa									
kN	15.60	15.65	15.75	17.10	17.16	16.97	16.40	15.89	-
Lifting forces at test frame, corrected to 18.0MPa									
kN	13.66	14.02	14.50	14.56	14.44	13.98	13.10	12.39	12.15

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3.3 DRAWBAR POWER AND FUEL CONSUMPTION (unballasted tractor)

Date of tests : 17-28.03.1997

Type of track : Concrete

Height of drawbar above ground	Tyre inflation pressure	
	Front	Rear
480 mm	310 kPa	140 kPa

Gear and group	Power	Drawbar pull	Speed	Engine speed	Slip of wheels	Specific fuel consumption	Specific energy	Temperature			Atmospheric conditions		
								Fuel	Coolant	Engine oil	Temperature	Relative humidity	Pressure
no	kW	kN	km/h	rev/min	%	g/ kWh	kWh / l	°C	°C	° C	°C	%	kPa
3.3.1. MAXIMUM POWER IN TESTED GEARS (Unballasted tractor)													
Y-1	10.81	13.92	2.80	2730	15.00	556	1.49	16	75	90	19	38	91.2
Y-2	15.84	13.77	4.14	2692	15.00	487	1.70	17	77	87	19	38	91.2
Y-3	22.38	13.65	5.90	2507	11.07	366	2.26	17	75	85	19	40	91.2
Y-4	23.49	10.34	8.18	2509	5.73	343	2.43	16	77	90	16	40	91.0
H-1	25.79	8.92	10.40	2512	4.47	307	2.70	19	76	88	17	42	91.0
H-2	28.40	6.47	15.80	2495	2.87	272	3.06	16	73	85	17	42	91.0

The gear H-2 is used instead of H-3 in order to protect the test car in the present conditions of the test track for safety reasons.

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3.3.2. FUEL CONSUMPTION

Gear and group	Power	Drawbar pull	Speed	Engine speed	Slip of wheels	Specific fuel consumption	Specific energy	Temperature			Atmospheric conditions		
								Fuel	Coolant	Engine oil	Temperature	Relative humidity	Pressure
no	kW	kN	km/h	rev/min	%	g/ kWh	kWh / l	°C	°C	° C	°C	%	kPa
3.3.2.1. In selected gear, at maximum power at rated speed													
H-2	28.40	6.47	15.80	2495	2.87	272	3.06	16	73	85	17	42	91.0
3.3.2.1.1. 75 % of pull at maximum power at rated speed													
H-2	22.08	4.86	16.38	2561	2.21	373	2.24	6	72	83	8	40	91.7
3.3.2.1.2. 50 % of pull at maximum power at rated speed													
H-2	15.53	3.24	17.28	2688	11.36	484	1.71	8	74	85	9	40	91.7
3.3.2.1.3. Next higher gear at reduced engine speed; same pull and travelling speed as in 3.3.2.1.1.													
H-3	22.08	4.85	16.38	1747	2.04	272	3.06	7	75	85	9	40	91.7
3.3.2.1.4. Next higher gear at reduced engine speed; same pull and travelling speed as in 3.3.2.1.2.													
H-3	15.53	3.24	17.28	1827	1.00	318	2.60	7	75	85	9	40	91.7
3.3.2.2. in selected gear nearest to 7.5 km/h at rated speed													
Y-3	22.38	13.65	5.90	2507	11.07	366	2.26	17	75	85	19	40	91.2
3.3.2.2.1. 75 % of pull at maximum power at rated speed													
Y-3	18.83	10.24	6.62	2662	7.06	424	1.96	7	74	86	9	42	91.7
3.3.2.2.2. 50 % of pull at maximum power at rated speed													
Y-3	13.10	6.82	6.91	2722	4.20	516	1.60	8	75	86	9	42	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.													
Y-4	18.83	10.24	6.62	2056	6.10	306	2.72	7	75	85	9	42	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.													
Y-4	13.10	6.82	6.91	2106	4.23	393	2.12	8	76	85	9	73	91.7

4.5 REPAİRS : None

4.6 REMARKS : None

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TEST NO : 30/1286 TG.8

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This test report has been prepared and undersigned as (27) pages.

Kemal EMEN
Assistant Director

Above signatures are approved to be belonging to the members of test commission.

09.04.1997

Dr. Hikmet TAŞBAŞ
MÜDÜR