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TEST REPORT: O.E.C.D. No. 1176

REPORT ON TEST IN ACCORDANCE WITH THE O.E.C.D. RESTRICTED STANDARD CODE FOR THE OFFICIAL TESTING OF AGRICULTURAL TRACTORS



Universal U-703 DT Tractor with Four-wheel Drive
Manufacturer: U.T.B. Tractorul Plant-Brasov
5, Turnului Street
2200 Brasov, Rumania

Date of Approval: 1989.03.15

This Bulletin is based on engineering tests in accordance with O.E.C.D. Standard Code for Official Testing of Agricultural Tractors.
It does not contain an evaluation of the performance of the tractor on practical farm work.

This report has been approved by the O.E.C.D. Coordinating Centre (C.E.M.A.G.R.E.F., France) as being in accordance with the O.E.C.D. STANDARD CODE.

Date of Approval: 1989.03.15 O.E.C.D. No. 1176

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Tractor manufacturer's name and address:	U.T.B. Tractorul plant - Brasov 5, Turnului Street 2200 Brasov - RUMANIA
Submitted for test by:	The manufacturer
Selected for test by:	The manufacturer in agreement with SjF
Place of running-in:	U.T.B. Tractorul plant - Brasov
Duration of running-in:	60 h

I. SPECIFICATIONS OF TRACTOR

TRACTOR

Make:	U.T.B.
Model:	U-703 DT
Type:	4 WD, Universal
Serial No.:	70300006
First serial No.:	70300001

ENGINE

Make:	U.T.B.
Model:	D-2404.050
Type:	4 strokes, direct injection diesel
Serial No.:	000012

Cylinders

Number/disposition:	4/vertical in line
Bore/stroke:	102/115 mm
Capacity:	3759 cm^3
Compression ratio:	17/1
Arrangement of valves:	Overhead
Cylinder liners:	Dry type

Supercharging

None

Fuel System

Fuel feed system:	Membrane pump
Make, type and model of fuel filter(s):	2, interchangeable element filters, type CAV 7176-096
Capacity of fuel tank:	62 l
Make, type and model of injection pump:	Rotary type, MEFIN CAV-DPAM 3842 F061
Serial No.:	1000-6-2550-B
Manufacturer's production setting of injection pump:	52 mm^3/ stroke at rated engine speed and full load
Injection pump timing:	13° before TDC
Make, model of injectors:	RO-KBL 70 S 23 MEFIN
Injection pressure:	23,0 MPa 23.0 + 0.8 MPa

Governor

Make:	MEFIN
Model:	Built-in in the injection pump
Type:	Mechanic, centrifugal for all speed ranges.
Governed range of engine speed:	600-2550 rev/min

Rated Engine Speed

2400 rev/min

Air Cleaner

Pre-cleaner:	
Make:	U.T.B.
Model:	2402.05.0103
Type:	Dry, centrifugal type
Location of air intake:	Above bonnet on left-hand side
Main cleaner:	
Make:	U.T.B.
Model:	121.05.033
Type:	Wet
Oil capacity:	1.0 l
Maintenance indicator:	None

Lubrication System

Type of feed pump:	Gear pump
Type of filter(s):	Paper element filter, replaceable
Number:	1
Cleaning period:	250 h

Cooling System

Type of coolant:	Water
Type of pump:	Centrifugal
Specification of fan:	Axial type
Number of fan blades:	6
Fan diameter:	412 mm
Coolant capacity:	14 l
Type of temperature control:	Thermostatic
Surpressure system:	60 kPa

Starting System:

Make:	Electroprecizia
Model:	DM2134
Type:	Solenoid engaged type
Starter motor power rating:	2.9 kW
Cold starting aid:	Thermostarter
Safety device:	Gear selector to be in neutral

Electrical System

Voltage:	12 V
Generator:	Alternator
Make:	Electroprecizia
Model:	01134
Power:	36 A, 432 W
Battery (Number of accumulators):	1
Rating:	150 Ah at 20 hours

Exhaust System

Make:	U.T.B.
Model:	2402.06.0306
Type:	In-case, double helical elements
Location:	Left hand side, vertical
Height of outlet above ground:	2632 mm

TRANSMISSION TO WHEELS

Clutch

Make:	U.T.B.
Type:	Dry disc double clutch (for travel and P.T.O.)
Number of plates:	2
Diameter of plates:	280 mm
Method of operation:	Foot pedal for travel and hand-lever for P.T.O.

Gear Box

Make:	U.T.B.
Type:	mechanical
Arrangement:	4 forward x 4 ranges and 1 reverse x 4 ranges, 3rd and 4th gears are synchomeshed.
Number of gears:	16 forward and 4 reverse

Rear Axle and Final Drives:

Make:	U.T.B.
Type:	Bevel gear type differential and planetary gear type final drives.
Differential lock:	
Type:	mechanic
Method of engagement:	Operated by foot pedal
Method of disengagement:	Self disengaged

Front Axle and Final Drives

Make:	U.T.B.
Type:	Bevel gear type differential and planetary gear type final drives
Differential lock:	None

Total Ratios and Travelling Speeds

Gear	Group	Number of engine rev. for one rev. of the driving wheel.	x) Nominal travelling speed for 2400 rpm. rated engine speed. km/h
	Creep		
1st		1268.3	0.50
2nd		928.0	0.68
3rd		730.9	0.86
4th		530.2	1.19
1 rev		1120.2	0.56
	Slow		
1st		435.1	1.45
2nd		318.5	1.97
3rd		250.4	2.51
4th		182.1	3.45
1 rev		384.2	1.64
	Medium		
1st		149.4	4.21
2nd		109.8	5.73
3rd		86.1	7.30
4th		62.5	10.06
1 rev		131.8	4.77
	Fast		
1st		51.4	12.23
2nd		37.7	16.68
3rd		29.8	21.10
4th		21.4	29.38
1 rev		45.4	13.85

x) Calculated with a tyre dynamic radius index of 695 mm (ISO 4251/1-1984).
Number of revolutions of front wheels for one revolution of rear wheel: 1.43

POWER TAKE OFF

Main Power Take Off:

Type:	Independent
Method of engagement:	By hand lever
Number of shafts:	1
Method of changing power take-off shaft ends and speeds:	The P.T.O. shaft ends are changed by changing the output shaft. The speed by means of a handlever.

Power Take-off Proportional to Engine Speed.

540 Rev/min

Location:	At rear of tractor
Diameter of power take-off shaft end:	35 mm
Number of splines In conformity with ISO 500, 1979:	6
Height above ground:	633 mm
Distance from the median plane of the tractor:	0 mm
Distance behind rear wheel axle:	520 mm
PTO speed at rated engine speed (2400 rev/min):	600 rev/min
Engine speed at standard power take-off speed:	2160 rev/min
Engine to pto ratio:	4:1
Power restriction and maximum torque:	None
Direction of rotation (Viewed facing driving end):	Clockwise

1000 Rev/min

Location:	At rear of tractor
Diameter of power take-off shaft end:	35 mm
Number of splines in conformity with ISO 500, 1979:	21

Height above ground:	633 mm
Distance from the median plane of the tractor:	0 mm
Distance behind rear wheel axle:	528 mm
PTO speed at rated engine speed (2400 rev/min):	991 rev/min
Engine speed at standard power take-off speed:	2421 rev/min
Engine to pto ratio:	2.421
Direction of rotation (Viewed facing driving end):	Clockwise

Power Take-off Proportional to Ground Speed: Optional

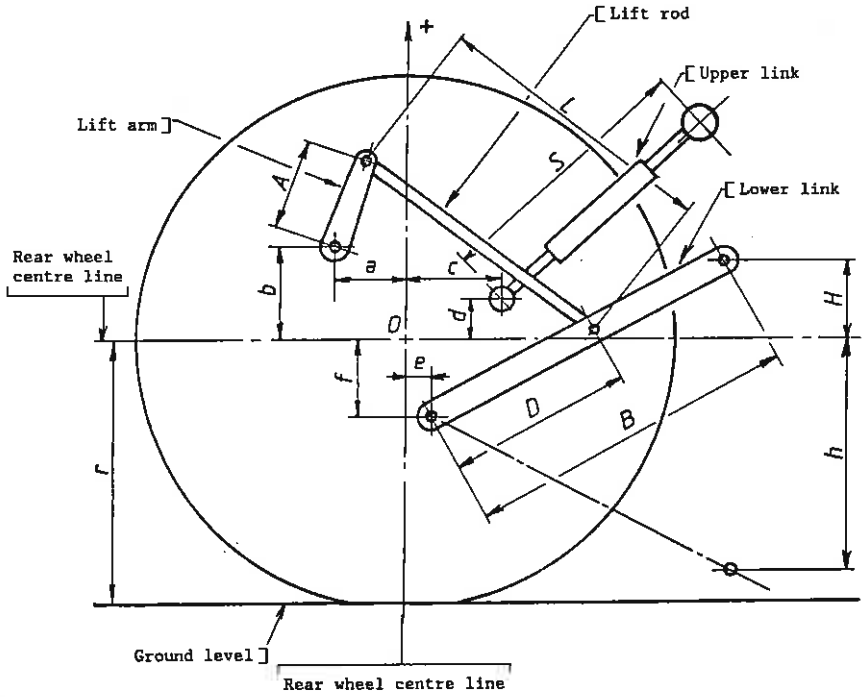
POWER LIFT:

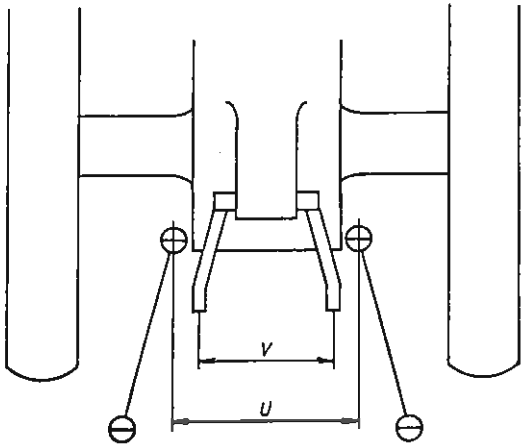
Make:	U.T.B.
Type of hydraulic system:	Open center system, position, draft or mixed control.
Type and number of cylinders:	1 main and 2 auxiliary, single acting type
Type of linkage lock for transport:	Hydraulic
Relief valve pressure setting:	18.6 MPa
Opening pressure of cylinder safety valve:	20.0 MPa
Lift pump type:	Gear pump
Transmission between pump and engine:	Pinions
Type and number of filters:	1 paper element filter
Site of oil reservoir:	Transmission housing
Type and number of tapping points:	2, double acting
Maximum volume of oil available to external cylinders:	12.0 l

THREE-POINT LINKAGE

Category: II according to ISO 730/2-1979

Controls: Draft and position control by sensor at each lower link.





Dimensions of Linkage Geometry (When Connected to the Standard Frame) mm

			Dimension or range mm	Settings used in test mm
Rear tyres (size 16.9-30) dynamic index radius		(r)	695	
Front tyres (size 9.5-24) dynamic index radius		(r')	495	
Lenght of lift arms		(A)	230	
Length of lower links		(B)	930	
Distance of lift arm pivot point from rear wheel centre line	Horizontally	(a)	159	
	Vertically	(b)	359	
Horizontal distance between the 2 lower link points		(u)	470	
Horizontal distance between the 2 lift arm end points		(v)	520	
Length of upper link		(S)	650 to 1030	680
Distance of upper link point from rear wheel centre line	Horizontally	(c)		376
	Vertically	(d)	196 206	206
Distance of lower link from rear wheel centre line	Horizontally	(e)	130	
	Vertically	(f)	243	
Distance of lower link pivot points to lift rod pivot points on lower links		(D)	445/515	515
Length of lift rods		(L)	600 to 730	685
Height of lower hitch points relative to the rear wheel centre line, situated 695 mm above the ground level		(h)	355 to 565	485
		(H)	45 to 240	120
Height above ground of lower hitch points when locked in transport position			Any height within lift range	

SWINGING DRAWBAR

Type:	Clevis type
Height above ground:	
maximum:	346 mm
minimum:	240 mm
Type of adjustment:	Changing by turning clevis
Distance of hitch point from rear wheel axis horizontally:	349/455 mm
Distance of hitch point from power take-off shaft end	
vertically:	400/450 mm
horizontally:	280/386 mm
Lateral adjustment:	180/170 mm left hand 180/170 mm right hand
Distance of pivot point from rear wheel axis, horizontally:	70 mm
Diameter drawbar pin hole:	33 mm

FIXED DRAWBAR (FRONT)

Height above ground:	625 mm
Distance of hitch point from front wheel axis Horizontally:	330 mm
Diameter hitch pin hole:	29 mm

HOLED DRAWBAR

Number of holes:	7
Distance between holes:	80 mm
Hole diameter:	32 mm
Thickness/width of the drawbar:	35/102 mm
Height above ground	
minimum:	104 mm
maximum:	909 mm
Horizontal distance to power take-off shaft end (rear):	490 mm

STEERING

Make:	Steaua Rosie
Method of operation:	Hydrostatic, controlled by steering wheel and separate hydraulic circulation. Hydraulic pump with gears, driven by engine.

Working pressure:	14.0 MPa
Hydraulic ram:	Double-acting, transversally placed along the axle.

BRAKES

Service Brake

Make:	U.T.B.
Type:	Wet disc brake, each brake consists of a friction plate mounted on rear planetary axles.
Method of operation:	Independent or simultaneous control on rear wheels, the braking performed through a mechanically actuated hydraulic pump each.
Trailer braking take-off:	None

Parking Brake

Type:	Disc type brake mounted on the drive pinion of central drive
Method of operation:	Mechanically actuated.

WHEELS

Number:	Front:	2 steering and driving
	Rear:	2 driving
Wheelbase:		2215 mm

Track width adjustment method:

	Min.	Max.	Adjustment method
Front	1380	1530	Through wheel turning by exchanging wheels and rim lugs
Rear	1510	2210	

PROTECTIVE STRUCTURE

Make:	I.P.T.
Model:	88 UC 703 A
Manufacturer's name and address:	I.P.T. Intorsuea Buzaulin Rumania
Protective device:	Safety cab
Tilting/not tilting:	Not tilting
OECD-Approval number:	CSD 1191/1

DRIVER'S SEAT

Make:	U.T.B.
Model:	U.T.B. 52648900
Type of suspension:	Floating parallelogram with thrust spring
Type of damping:	Hydraulic
Range of adjustment:	
longitudinal:	184 mm
vertical:	100 mm

LIGHTING

The lighting is in accordance with the national Danish regulations for road traffic.

	Height above ground of centre mm	Size mm	Distance from outside edge of tractor to median plan mm
Headlights	1288	145x130	905
Sidelights	1330	160x65	270
Rearlights	1485	310x78	420
Reflectors	1313	75x51	240
	670	75x51	705

CONDITIONS DURING TEST

Overall Dimensions

Tyre size front: 9.5-24
rear: 16.9-30

	Length mm	Width min. mm	Width max. mm	Height at top of exhaust silencer mm	Height at top of protective structure mm
Without ballast	3770	1939	2629	2632	2500

Ground Clearance (unballasted)

Clearance: 240 mm

The swinging drawbar is the clearance limiting part.

Track Setting

Front:	1380 mm
Rear:	1710 mm

Tractor Mass
(With tanks full and with cab)

Without ballast:	Without driver	With driver
front	1195 kg	1210
rear	2070 kg	2130
total	3265 kg	3340

Tyres and Track Width Specifications

	Front wheels	Rear wheels
Tyres:		
Dimensions	9.5-24	16.9-30
Ply rating	8	8
Type	Radial	Radial
Maximum load (tyre manufacturer's) (kN)	10.98	22.02
Maximum load (tractor manufacturer's) (kN)	10.98	18.64
Inflation pressure tyre manufacturer's (kPa)	240	120
Dynamic radius index (mm)	495	695
Chosen track width (mm):	1380	1710

Oils and Lubrication

Capacity and Change Interval

	Capacity (l)	Oil change (h)	Filter change (h)
Engine	10	250	250
Gear box and rear axle	50	1000	500
Front axle	3.8	1000	500
Final drive (front)	2	1000	500
Final drive (rear)	2	1000	500
Hydraulic system	in common with gearbox		
Steering	2.6	1000	500

Specifications

	Recommended	Used during test
Engine oil		
Type:	SA 20W 4	SAE 20W/40
Viscosity:	1	14.5 cst
Classification (API, MIL-L, ISO):	API CC-SF	API CC-SF
Transmission oils		
Type:	SAE 80 EP	SAE 80 EP
Viscosity:	48 cSt	48 cSt
Classification:	API GL-5	API GL-4
Hydraulic fluid		
Type:	Same as transmission oils	
Viscosity:		
Classification:		
Steering oil		
Type:	Same as transmission oils	
Viscosity:		
Classification:		
Grease	NLGI No.3	NLGI No.3
Number of lubrication points:	6	

Fuel

Type	
In conformity with national standard:	Esso Diesel Fuel
Density at 15°C:	0.846 g/cm^3

II. COMPULSORY TEST RESULTS

1. MAIN POWER TAKE-OFF

Date and location of tests: 1988.07.26., Bygholm, Horsens

Type of dynamometer: SCHENCK D700-1H

Power	Speed		Fuel consumption			Specific Energy
	Engine	P.T.O	Hourly	Specific		
kW	rev/min		kg/h	l/h	g/kWh	kWh/l
1.1 MAXIMUM POWER - Two-hour test						
49.8	2421	1000	12.74	15.06	256	3.31
1.2 POWER AT RATED ENGINE SPEED						
49.6	2400	991	12.65	14.95	255	3.32
1.3 STANDARD POWER TAKE-OFF SPEED (1000 ± 25 rev/min)						
49.8	2421	1000	12.74	15.06	256	3.31
1.4. PART LOADS						
1.4.1 The torque corresponding to maximum power						
49.8	2421	1000	12.74	15.06	256	3.31
1.4.2 85% of torque obtained in 1.4.1						
42.8	2455	1014	11.40	13.48	266	3.18
1.4.3 75% of torque defined in 1.4.2						
32.4	2478	1023	9.46	11.18	292	2.90
1.4.4 50% of torque defined in 1.4.2						
21.8	2500	1032	7.50	8.87	344	2.46
1.4.5 25% of torque defined in 1.4.2						
11.0	2520	1041	5.84	6.90	531	1.59
1.4.6 unloaded						
-	2543	1050	4.34	5.13	-	-

1.5. PART LOADS AT STANDARD POWER TAKE-OFF SPEED (1000 rev/min)

Power	Speed		Fuel consumption			Specific Energy
	Engine	P.T.O	Hourly	Specific		
kW	rev/min		kg/h	l/h	g/kWh	kWh/l
1.5.1 The torque corresponding to maximum power						
49.8	2421	1000	12.74	15.06	256	3.31
1.5.2 85% of torque obtained in 1.5.1						
42.8	2455	1014	11.40	13.48	266	3.18
1.5.3 75% of torque defined in 1.5.2						
32.4	2478	1023	9.46	11.18	292	2.90
1.5.4 50% of torque defined in 1.5.2						
21.8	2500	1032	7.50	8.87	344	2.46
1.5.5 25% of torque defined in 1.5.2						
11.0	2520	1041	5.84	6.90	531	1.59
1.5.6 unloaded						
-	2543	1050	4.34	5.13	-	-

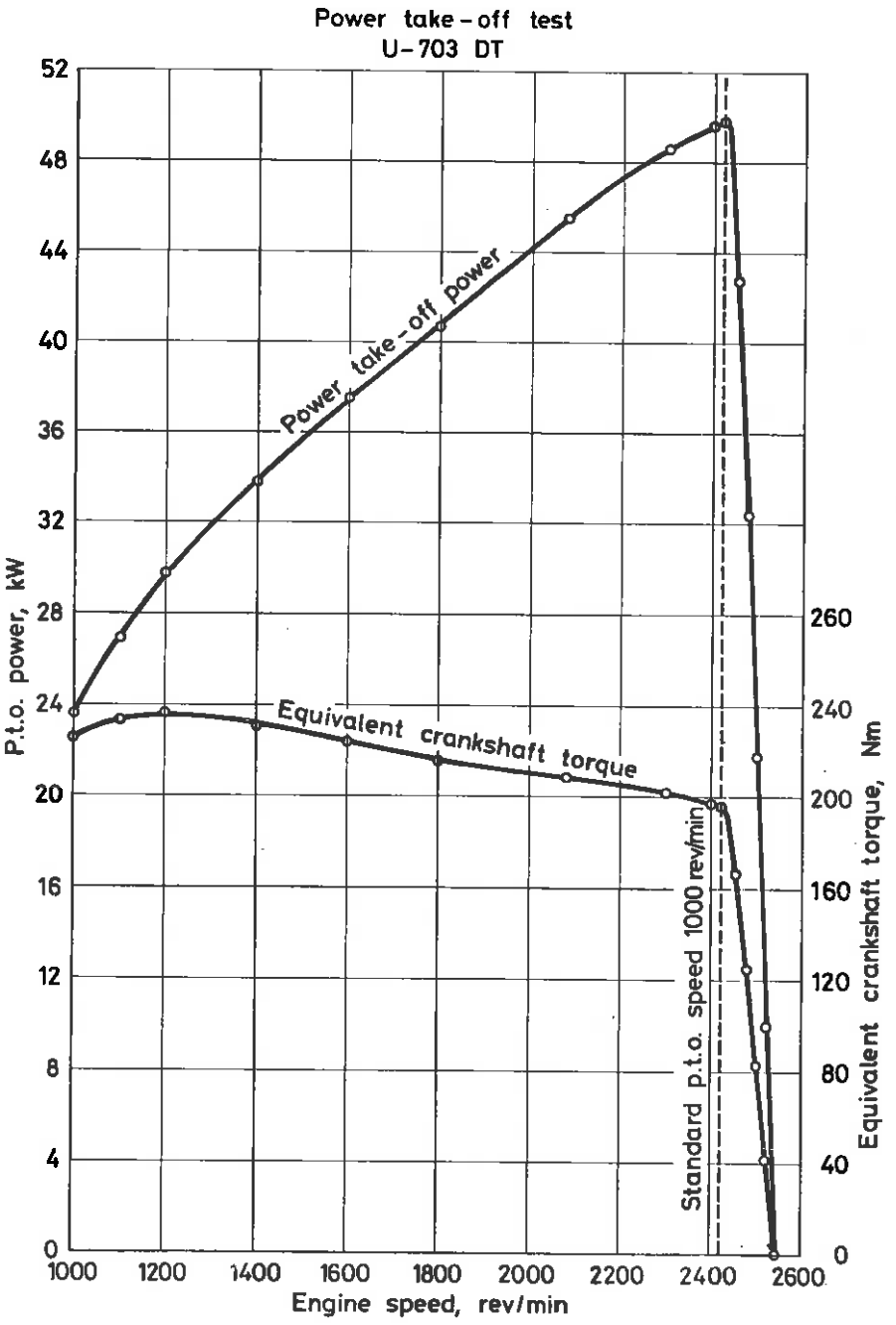
No load maximum engine speed: 2545 rev/min

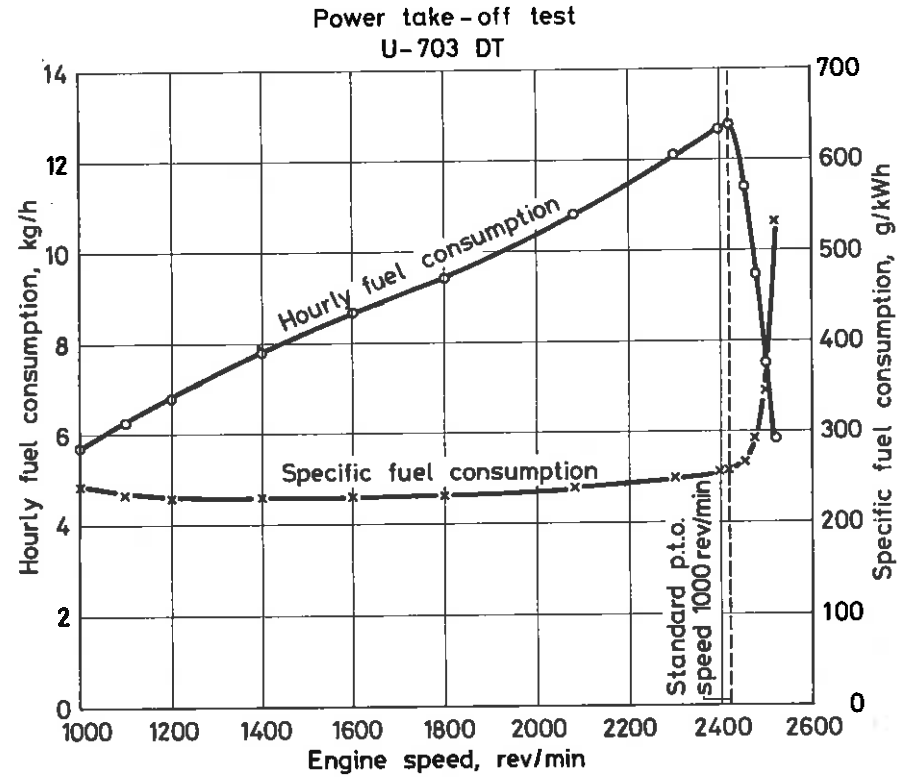
Torque (equivalent crankshaft):
at maximum power: 196 Nm

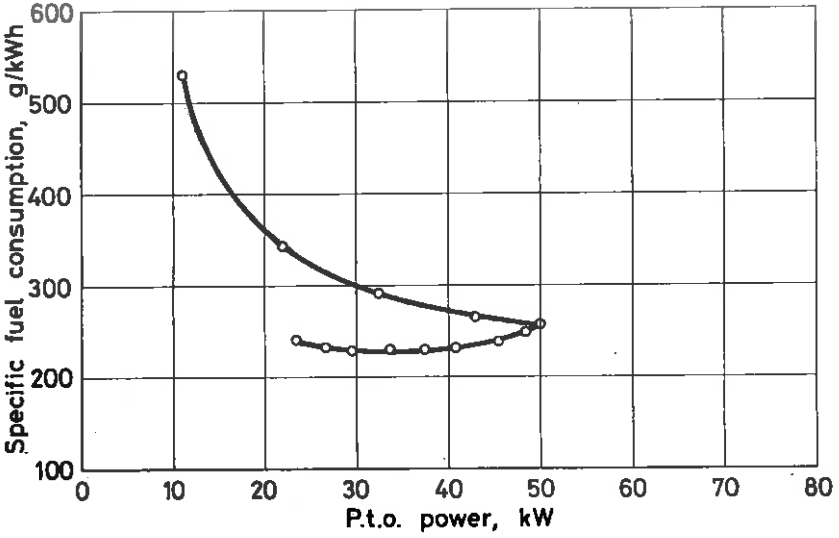
Maximum torque
(equivalent crankshaft)
(engine speed: rev/min. 1200): 237 Nm

Mean atmospheric conditions:
Temperature: 23 °C
Pressure: 101 kPa
Relative humidity: 63 %

Maximum temperatures:
Coolant: 74 °C
Engine oil: 121 °C
Fuel: 33 °C
Engine air intake: 24 °C


Power take-off test
U-703 DT
Power take-off power
Equivalent crankshaft torque
P.t.o. power, kW
Equivalent crankshaft torque, Nm
Standard p.t.o. speed 1000 rev/min
Engine speed, rev/min
0
4
8
12
16
20
24
28
32
36
40
44
48
52
0
40
80
120
160
200
240
260
1000
1200
1400
1600
1800
2000
2200
2400
2600


Power take-off test
U-703 DT
Hourly fuel consumption, kg/h
Specific fuel consumption, g/kWh
Hourly fuel consumption
Specific fuel consumption
Standard p.t.o. speed 1000 rev/min
Engine speed, rev/min
0
2
4
6
8
10
12
14
100
200
300
400
500
600
700
1000
1200
1400
1600
1800
2000
2200
2400
2600


Specific fuel consumption, g/kWh
P.t.o. power, kW
100
200
300
400
500
600
0
10
20
30
40
50
60
70
80

2. HYDRAULIC POWER AND LIFTING FORCE

Date and location of tests:	1988.08.16
Hydraulic power test	
Type of hydraulic system:	Open centre
Hydraulic fluid temperature at beginning of test:	65°C

HYDRAULIC POWER TEST

Sustained pressure with relief valve open: (Pump stalled - no)	18.6 MPa
Pump delivery rate at minimum pressure:	42.5 l/min
Flow rate corresponding to a hydraulic pressure equivalent to 90% of the actual relief valve pressure setting and corresponding hydraulic power	
Flow rate:	36.5 l/min
Pressure:	16.7 MPa
Power:	10.1 kW
Flow rate and hydraulic pressure corresponding to maximum hydraulic power	
Flow rate:	36.5 l/min
Pressure:	16.7 MPa
Power:	10.1 kW
Tapping point used for test:	Auxiliary service connection
Temperature of hydraulic fluid, if different from 65°±5°C:	65 ±5°C
Opening pressure of the unloading valve:	17.5 MPa
Closing pressure of the unloading valve:	17.2 MPa

Power Lift Test

	Height of lower hitch point above ground in down position mm	Vertical movement mm	Maximum corrected force exerted through full range kN	Corresponding pressure of hydraulic fluid MPa	Moment about rear axle kN.m	Max. tilt angle of mast from vertical Degrees
at hitch points	210	605	30.0	16.7	31.8	-
on the frame	200	665	28.9	16.7	48.3	6.0

Linkage settings for test - see table and figure in specifications

Lifting heights relative to the horizontal plane including the lower link pivot points

mm	-252	-242	-200	-100	0	+100	+200	+300	+363	+413

Lifting forces at hitch points

(Corresponding pressure 16.7 MPa)

kN		30.0	30.6	31.6	33.7	34.5	34.9	35.6	36.4	

Lifting forces at test frame

(Corresponding pressure 16.7 MPa)

kN	28.4	28.5	29.2	30.8	31.1	30.6	29.9	29.4	29.1	28.9

3. DRAWBAR PERFORMANCE

Date of tests: 1988.10.03
Type of track: Tarmacadam
Height of drawbar above ground: 390 mm .
Tyre size: 9.5-24 at front, 16.9-30 at rear
Tyre inflation pressure150 kPa at front, 100 kPa at rear

Atmospheric conditions:

Temperature: 10 °C
Pressure: 102 kPa
Relative humidity: 85 %

Gear	Speed km/h	Drawbar pull kN	Power kW	Engine speed rev/min	Wheelslip %	Specific fuel consumption g/kWh	Specific energy kWh/l	Temperatures		
								Fuel °C	Coolant °C	Engine oil °C
MAXIMUM DRAWBAR POWER IN TESTED GEAR										
1. Creep	0.44	29.43	3.60	2530	15.0	1365	0.62	22	62	86
2. Creep	0.63	29.43	5.15	2525	15.0	1058	0.80	22	62	89
3. Creep	0.81	29.43	6.62	2523	15.0	863	0.98	22	62	91
4. Creep	1.10	29.43	8.99	2513	15.0	699	1.21	22	62	91
1. Slow	1.36	29.43	11.12	2512	15.0	579	1.46	24	62	92
2. Slow	1.86	29.43	15.21	2498	15.0	481	1.76	26	62	92
3. Slow	2.34	29.43	19.13	2484	15.0	434	1.95	27	65	94
4. Slow	3.05	29.92	25.35	2465	15.0	397	2.13	25	65	94
1. Medium	3.67	30.11	30.70	2450	15.0	374	2.26	25	65	95
2. Medium	5.52	25.90	39.71	2421	6.5	319	2.65	25	65	94
3. Medium	7.20	20.11	40.22	2421	4.4	317	2.67	26	65	94
4. Medium	10.00	13.54	37.61	2421	2.8	338	2.50	28	65	94

Drawbar Performance (continued)

Gear	Speed km/h	Drawbar pull kN	Power kW	Engine speed rev/min	Wheelslip %	Specific fuel consumption g/kWh	Specific energy kWh/l	Temperatures		
								Fuel °C	Coolant °C	Engine oil °C
TRANSMISSION AND FUEL CONSUMPTION CHARACTERISTICS (i) Maximum drawbar power in tested gear										
3. Medium	7.20	20.11	40.22	2421	4.4	317	2.67	26	65	94
(ii) 75% of pull at maximum power										
3. Medium	7.32	15.08	30.66	2465	2.8	371	2.28	28	65	94
(iii) 50% of pull at maximum power										
3. Medium	7.50	10.06	20.96	2486	2.1	440	1.92	28	65	94
(iv) Higher gear same pull as in (ii) reduced engine speed										
4. Medium	7.32	15.08	30.66	1762	2.8	308	2.75	26	65	94
(v) Higher gear as in (iii) reduced engine speed										
4. Medium	7.50	10.06	20.96	1801	2.1	338	2.50	28	65	94

III. OPTIONAL TEST RESULTS

1. MEASUREMENTS OF EXTERNAL NOISE LEVEL

Date of tests:	1988.08.10
Sound level meter:	Brüel & Kjær 2209
Type of track:	Tarmacadam
Gear number:	4, Fast
Travelling speed before acceleration:	23.1 km/h
Sound level:	87.5 dB (A)

2. NOISE MEASUREMENTS AT THE DRIVER'S EAR LEVEL

Date of test:	1988.08.10
Type of sound level meter and octave filter:	Brüel & Kjær 2209 and 1613
Type of track:	Tarmacadam

The test results are taken from the O.E.C.D. Dynamic test report, approved with number CSD 1192.

Gear number	Drawbar pull KN	Measured travelling speed km/h	Sound Level		
			Front engaged dB(A)	Front disengaged dB(A)	Noise rating N
Unloaded test in the gear, giving the speed nearest to 7.5 km/h					
3.M	Light load	7.9	84.5	83.5	-
Unloaded test in the gear, giving the maximum speed					
4.F	Light load	30.8	85.5	85.0	-
Test with the drawbar pull, for which the tractor gives the maximum sound level (combination of gear, giving the nearest nominal speed to 7.5 km/h and also in any gear with a sound level increase of at least 1 dB(A)).					
3.M	17.7	7.2	86.0	85.5	85 *)

Repairs and Remarks

After the test the manufacturer informs that the following alteration has been made:

The ratio between engine and PTO (540 rev/min) has been changed from 4:1 to 3,933:1, and the ratio between engine and PTO (1000 rev/min) has been changed from 2,421:1 to 2,409:1.

In this report all performance characteristics are given corresponding to the International System of Units.

The reference to the former used Technical System of Units is given by the following relations:

Forces:	1 N	= 0.10197 kp	or 1 kp	= 9.80665 N
Powers:	1 kW	= 1.35962 metric hp	or 1 metric hp	= 0.73550 kW
Pressures:	1 bar	= 1.01972 kp/cm^2	or 1 kp/cm^2	= 0.980665 bar
Torques:	1 Nm	= 0.10196 kpm	or 1 kpm	= 9.80665 Nm