Report on test in accordance with
O.E.C.D. STANDARD CODE I for the Official
Testing of Agricultural Tractor Performance

FULL CODE

O.E.C.D. Approval No. : 1/1887
Date of approval : 25th February, 2000



Agricultural Tractor

LG LT550D(4WD)

Manufactured by : LG Cable & Machinery Ltd.
200, Dangjung-dong, Gunpo-si, Kyunggi-do, KOREA

NATIONAL AGRICULTURAL MECHANIZATION RESEARCH INSTITUTE
249, Seodun-dong, Kwonson-gu, Suwon-si, Kyunggi-do, Republic of Korea

This is a report on a tractor test in accordance with the OECD STANDARD CODE for the Official Testing of Agricultural Tractor Performance(C(87)53(Final), Code 1) and amendments (C(90)79, C(92)52, C(93)52, C(93)133, C(95)17) and C(99)23). 21

It does not contain an evaluation of the tractor on practical work

Report No. : 99-M-5-5

Duration of test : March 1999 till July 1999

Date of approval : 25th February, 2000

This report has been approved by the OECD Co-Ordinating Centre (CEMAGREF, France) as being in accordance with the OECD STANDARD CODE I.

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 kgf	=	9.80665 N
Powers	1 PS	=	0.7355 kW
Pressures	1 kgf/㎠	=	98.0665 kPa

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Printed in the Republic Of KOREA, April, 2000 ; NAMRI

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- Tractor manufacturer's name and address : LG Cable & Machinery Ltd.
  200, Dangjung-dong, Gunpo-si, Kyunggi-do, R.O.K
- Location of tractor assembly : 200, Dangjung-dong, Gunpo-si, Kyunggi-do, R.O.K
- Submitted for test by : The manufacturer
- Selected for test by : The manufacturer with agreement by NAMRI
- Place of running-in : LG Cable & Machinery Ltd.
- Duration of running-in : Engine and tractor 84.3 hours
- Location of test : NAMRI

1. SPECIFICATIONS OF TRACTOR

1.1 Identification

- Make : LG Cable & Machinery Ltd.
- Model : LT550D
- Type : Wheeled Tractor, unit construction
- Number of driving wheels : 4
- Serial No. : LT55-H00001
- 1st Serial No. : LT55-I00134

1.2 ENGINE

- Make : Mitsubishi Heavy Industries
- Model : S4S-D
- Type : 4 stroke, water cooled, indirect diesel, naturally aspirated
- Serial No. : S4S-057193

1.2.1 Cylinders

- Number/disposition : 4 , Vertical in-line
- Bore/stroke : 94 / 120 mm
- Capacity : 3331 ㎤
- Compression ratio : 18.0 : 1
- Arrangement of valves : Overhead valves
- Cylinder liners(wet or dry) : None

1.2.2 Supercharging : None

1.2.3 Fuel system

- Fuel feed system : Forced-feed type

- Fuel filters
  - Make : Mitsubishi Heavy Industries
  - Model : None
  - Type : Cartridge type
- Capacity of fuel tank : 55 dm^3
- Injection pump
  - Make : Nihon Denso
  - Model : PES4A90G
  - Type : Bosch A, in line
- Serial No. : 11T00260L
- Manufacturer's production setting of injection pump
  - Flow rate : 11.6±0.6 dm³/h at rated engine speed and full load
  - Timing : 16 degrees before T.D.C
- Injectors
  - Make : Nihon Denso Ltd.
  - Model : Bosh KBAL
  - Type : Single hole
- Injection pressure : 17.65 MPa

1.2.4 Governor

- Make : Nihon Denso Ltd.
- Model : RSV
- Type : Mechanical
- Governed range of engine speed : From 930 to 2650 rev/min
- Rated engine speed : 2500 rev/min

1.2.5 Air cleaner

- Pre-cleaner
  - Make : Daeyang Industry Co.
  - Model : A1190054
  - Type : Cyclone type
  - Location of air intake : Under the bonnet, in front of the radiator
- Main cleaner
  - Make : Ssangma Engineering
  - Model : A1190080
  - Type : Oil bath
  - Location of air intake : -
- Maintenance indicator : None

1.2.6 Lubrication system

- Type of feed pump :	Rotor pump
- Type of filter :	Full flow, cartridge type
- Number of filters :	1

1.2.7 Cooling system

- Type of coolant :	Water or water and antifreeze solution
- Type of pump :	Centrifugal
- Specification of fan :	Axle driven, puller
· Number of fan blades :	7
· Fan diameter :	440 mm
- Coolant capacity :	8.5 dm^3 (Radiator 3.0 dm^3 + Engine 5.5 dm^3)
- Type of temperature control :	Wax Pellet type thermostat
- Superpressure system :	88.3 kPa at radiator cap

1.2.8 Starting system

- Make :	Mitsubishi Electric Co., Ltd.
- Model :	M-00182-85
- Type :	Electrical, pre-engaged, solenoid operated
- Starter motor power rating :	2.2 kW
- Cold starting aid :	Electrical glow plug
- Safety device :	Starting operable only when main clutch pedal fully depressed and PTO clutch disengaged

1.2.9 Electrical system

- Voltage :	12 V
- Generator	
· Make :	Mitsubishi Electric Co., Ltd.
· Model :	A7TA0483
· Type :	3 phase generator
· Power :	0.54 kW
- Battery of accumulators	
· Number :	1
· Rating :	80Ah at 5 hours rating

1.2.10 Exhaust system

- Make :	Sesin Enginnering Co.
- Model :	A1151098
- Type :	Horiziontal silencer
- Location :	Under the bonnet, right hand side of tractor

1.3 TRANSMISSION

1.3.1 Clutch (travel)

- Make : Seojin Daiktn Co.
- Model : A1250066
- Type : Dry
- Number of plates : 1
- Diameter of plates : 275 mm
- Method of operation : Mechanically actuated by pedal

1.3.2 Gear box

- Make : Own make
- Model : A1280119
- Type : Mechanical
- Description : 4 main gears with syncro-mesh, 2 range gear(L, H) and creeper gear with constant-mesh, syncromesh type forward/reverse gear with shuttle lever, 16 forward and 16 reverse gears

	Forward	Reverse
Number of gears	4	4
Number of ranges/groups	2	2
Creeper gears(engaged/disengaged)	2	2
Total of arrangements	16	16

※ The creeper gears are not to be used for heavy drawbar work.

- Available options : None

1.3.3 Rear axle and final drives

- Make : Own make
- Model : A1480064/65(LH/RH)
- Type : Bevel gear type differential and spur gear type final drives
- Differential lock
  - Type : Mechanical, dog clutch on differential gears
  - Method of engagement : Mechanically actuated by pedal
  - Method of disengagement : Self-disengagement by spring

1.3.4 Front axle and final drives

- Make : Youngjin Precision Industries Co.
- Model : A1400173
- Type : Bevel gear type differential and bevel gear type final drives
- Differential lock : Not available

1.3.5 Total ratios and travelling speeds

Gear No.	Group or range	Number of engine revolutions for one revolution of driving wheels		Nominal travelling speed(*) at rated engine speed to 2500 rev/min (km/h)	
		Forward	Reverse	Forward	Reverse
1	C-L-1	2182.04	2055.69	0.28	0.29
2	C-L-2	1517.94	1430.04	0.40	0.42
3	C-L-3	1123.27	1058.23	0.54	0.57
4	C-L-4	758.97	715.02	0.79	0.84
5	C-H-1	505.98	476.68	1.19	1.27
6	C-H-2	351.99	331.60	1.71	1.82
7	C-H-3	260.47	245.39	2.32	2.46
8	C-H-4	175.99	165.80	3.43	3.64
9	L-1	296.18	279.03	2.04	2.16
10	L-2	206.04	194.11	2.93	3.11
11	L-3	152.47	143.64	3.96	4.20
12	L-4	103.02	97.05	5.86	6.22
13	H-1	68.68	64.70	8.78	9.32
14	H-2	47.78	45.01	12.62	13.40
15	H-3	35.35	33.01	17.06	18.27
16	H-4	23.89	22.51	25.25	26.80
(*) Calculated with the dynamic radius index of 640 mm(ISO 4251/1-1992).					

Number of revolutions of front wheels for one revolution of rear-wheels : 1.398

Range selection : L = Low, H = High, C = Creep

1.4 POWER TAKE-OFF

1.4.1 Main power take-off

- Type : Independent
- Method of engagement : By switch on instrument panel, electro-hydraulically engaging wet multi-plate clutch
- Number of shafts : 1
- Method of changing power take-off shaft speeds : Manually by hand lever

1.4.1.1 Power take-off proportional to engine speed

Power take-off at 540 rev/min

- Location : Rear of tractor
- Diameter of power take-off shaft end : 35 mm
- Number of splines : 6 in conformity with ISO 500 : 1991
- Height above ground : 666 mm
- Distance from the median plane of the tractor : 5 mm
- Distance behind rear-wheel axis : 344 mm
- PTO speed at rated engine speed(2500rev/min) : 612 rev/min

- Engine speed at standard power take-off speed : 2206 rev/min
- Ratio of rotation speeds (engine speed / p.t.o speed) : 4.084967 : 1
- Power restriction : None
- Maximum torque transmissible : None
- Direction of rotation(viewed from behind tractor) : Clockwise

1.4.1.2 Power take-off proportional to ground speed : None

1.4.2 Optional power take-off : None

1.5 Hydraulic power lift

- Make : Daerim industrial Co.
- Model : A1820033
- Type : Hydraulic, position, draft and mixed control
- 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 : 15.7 ~ 16.2 MPa
- Opening pressure of cylinder safety valve : 19.6 MPa
- Lift pump type : Gear pump
- Transmission between pump and engine : Driven by engine cam shaft
- Type and number of filters : 1, Cartridge type
- Site of oil reservoir : Transmission housing
- Type, number and location of tapping points : SAE 3/8" hydraulic female coupler, 4 sets, rear of tractor
- Maximum volume of oil available to external cylinders : None

1.6 Three-point linkage

- Category : 1, in conformity with ISO730/1-1994
- Category adapter : None

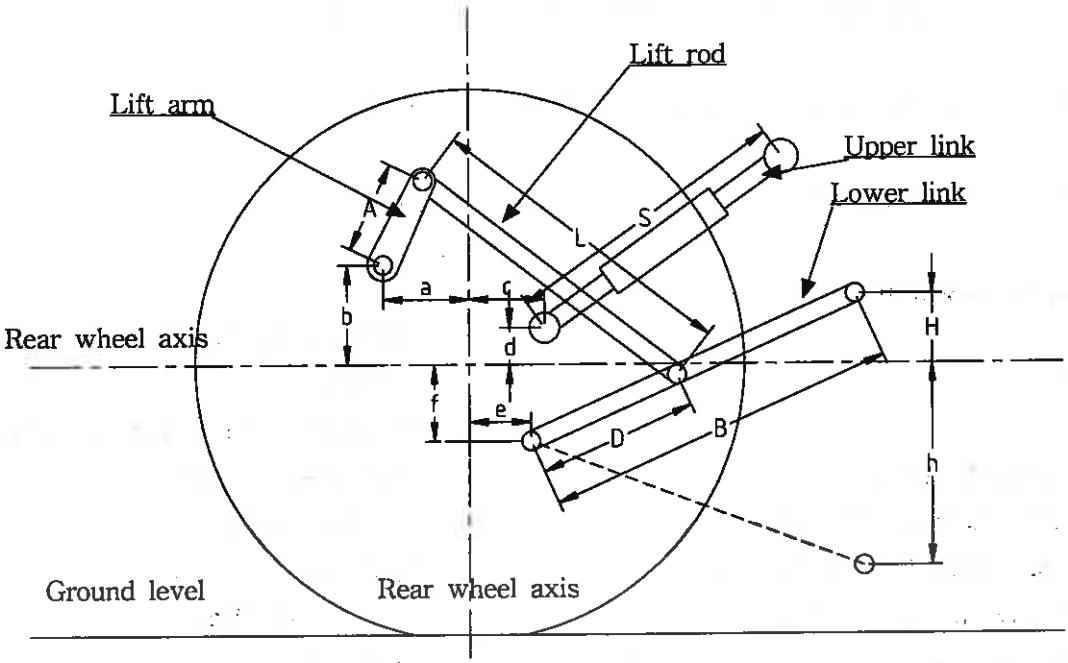


Figure 1.1
Link test - Linkage geometry

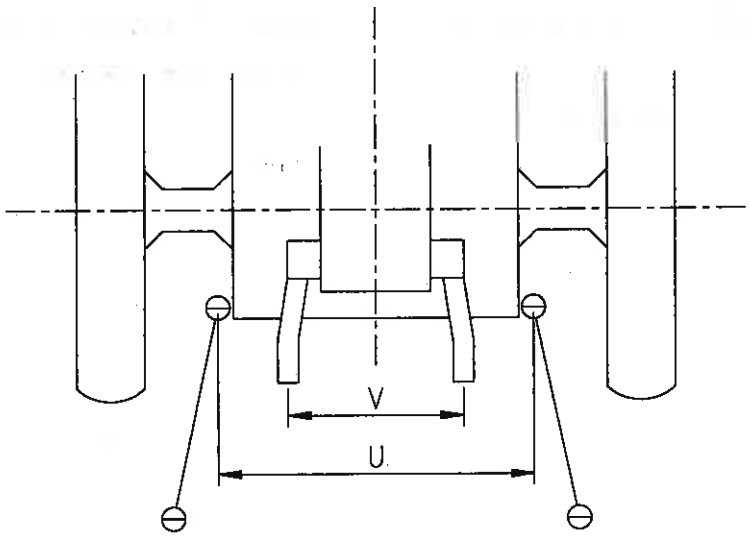


Figure 1.2
Link test - Linkage geometry

			Dimension or range (mm)	Settings used in test (mm)
Length of lift arms		(A)	250	250
Length of lower links		(B)	720	720
Distance of lift arm pivot point from rear-wheel axis	horizontally	(a)	127	127
	vertically	(b)	243	243
Horizontal distance between the 2 lower link points		(u)	355	355
Horizontal distance between the 2 lift arm end points		(v)	415	415
Length of upper link		(S)	from 480 to 720	585
Distance of upper link pivot point from rear wheel axis	horizontally	(c)	324	324
	vertically	(d)	from 215 to 305	258
Distance of lower link pivot point from rear wheel axis	horizontally	(e)	168	168
	vertically	(f)	157	157
Distance of lower link pivot point to lift rod pivot points on lower links		(D)	from 340 to 455	340
Length of lift rods		(L)	from 440 to 510	510
Height of lower hitch points relative to the rear-wheel axis				
- in low position		(h)	from 292 to 458	442
- in high position		(H)	from 229 to 347	233
Height above ground of lower hitch points when locked in transport position(*)			Any height within lifting range	

(*)Assuming r = 640mm rear tyre dynamic radius index of ISO 4251/1-1992

Table 1.1

Dimensions of linkage geometry

when connected to the standard frame

1.7 Swinging drawbar : None

1.8 Trailer Hitch

- Type	Fixed clevis on the rear of transmission housing
- Hole diameter :	30 mm
- Height above ground :	451 mm
- Distance of hitch point from rear-wheel axis, horizontally :	422 mm
- Distance of hitch point from power take-off shaft end	
· Vertically :	183 mm
· Horizontally :	78 mm
- Maximum vertical permissible load :	7 kN

1.9 Holed drawbar : None

1.10 Steering

- Make :	Shinjin Precision Co.
- Model :	A1630284
- Type :	Hydrostatic
- Method of operation :	
· Pump :	Gear pump
· Ram :	2, single acting ram actuating directly on front axle
- Working pressure :	14.2 MPa

1.11 Brakes

1.11.1 Service brake

- Make :	Jin-Myoung Metal Co.
- Model :	A1650069
- Type :	Oil-immersed multiplate discs, 3 per side
- Method of operation :	Operated by 2 foot pedals which can be locked together
- Trailer braking take-off :	None

1.11.2 Parking brake

- Type :	Mechanical in common with service brake
- Method of operation :	Depressed by brake pedals and ratched by hand lever

1.12 Wheels

- Number	
· Front :	2, steering and driving
· Rear :	2, driving

- Wheelbase : 2037 mm
- Track width adjustment :

	Minimum mm	Maximum mm	Adjustment method
Front	1408	1742	By reversing wheels and offset lug rims
Rear	1258	1650	

1.13 Protective structure

- Make : Top Mental Ltd.
- Model : A1880004
- Type : Protective Cab
- Manufacture's name and address : Top Mental Ltd.
  7L-114B, Namdonggongdan 648-6
  Gojan-dong, Namdong-gu Inchen-si, KOREA
- Protective device : Cab, not tiltable
- OECD approval
  - Approval number : None
  - Date of approval : None
  - Nos. of minor modification certificates, if any : None

1.14 Seat

1.14.1 Driver's seat

- Make : Haesung Trading Co.
- Model : A1850071
- Type : Spring
- Seat and steering wheel reversible : No
- Type of suspension : Spring
- Type of damping : Hydraulic
- Range of adjustment
  - Longitudinal : 152 mm
  - Vertical : 96 mm
- Safety belt : None

1.14.2 Optional driver's seat(s) None

1.14.3 Passenger seat None

1.15 Lighting

	Height above ground of center	Size	Distance from outside edge of lights to median plane of tractor
	mm	mm	mm
Head lights	972	162×104	231
Side lights	947	157×57	282
Rear lights	1438	121×68	590
Reflectors	1438	55×55	542

2. TEST CONDITIONS

2.1 Overall dimensions

	Length	Width		Height at top of	
		minimum	maximum	protective structure	exhaust silencer(*)
	mm	mm	mm	mm	mm
Ballasted	3655	1470	2188	2355	2300
Unballasted	3470	1470	2188	2355	2300

2.2 Ground clearance (unballasted tractor) : 392 mm

- Clearance-limiting part : Front axle housing

2.3 Tractor mass

- Mass(with frame)

	Ballasted		Unballasted	
	Without driver	With driver	Without driver	With driver
	kg	kg	kg	kg
Front	1210	1217	989	993
Rear	1312	1380	1356	1427
Total	2522	2597	2345	2420

2.4 Ballast

	Weights		Water
	Number	Total mass	
		kg	kg
Front	9	177	-
Rear	-	-	-
Optional	-	-	-

2.5 Track specifications : None

2.6 Tyres and track width specifications

	Front	Rear
Tyres		
· dimensions	11.2-20	14.9-28
· ply rating	8	6
· type	Diagonal	Diagonal
· maximum load (tyre manufacturer's)	10.74 kN	18.44 kN
· maximum load (tractor manufacturer's)	10.74 kN	18.44 kN
· inflation pressure (tyre manufacturer's)	235.35 kPa	176.52 kPa
· dynamic radius index	465 mm	640 mm
Chosen track width	1408 mm	1416 mm

2.7 Fuel

- Type : Diesel fuel No2, in conformity with Korean Standards (KS M 2620)
- Density at 15℃ : 0.824 g/㎤

2.8 Oils and lubricants

2.8.1 Capacity and change interval

	Capacity	Oil change	Filter change
	dm³	h	h
Engine	10	100	100
Gear box, rear axle, steering and final drives in common with hydraulic system	38	200	200
Front axle and final drives	10	200	-
Rear axle and final drives	6.5 × 2	200	-

2.8.2 Specifications

	Recommended	Used during test
Engine oil · Type : · Viscosity : · Classification :	 Below 0 °C : SAE 10W or 10W-30 From 10 °C to 25 °C : SAE 20 or 10W-30 Above 25 °C : SAE 30 or 10W-30 68.2 cSt at 40 ℃ 11.4 cSt at 100 °C API-CC or CD	Same
Transmission oil, Hydraulic fluid, Steering oil · Type : · Viscosity : · Classification :	 Transmission oil 10 cSt API GL-4	Same

2.8.3 Grease

- Number of lubrication points : 11

3. COMPULSORY TESTS RESULTS

3.1 Main power take-off

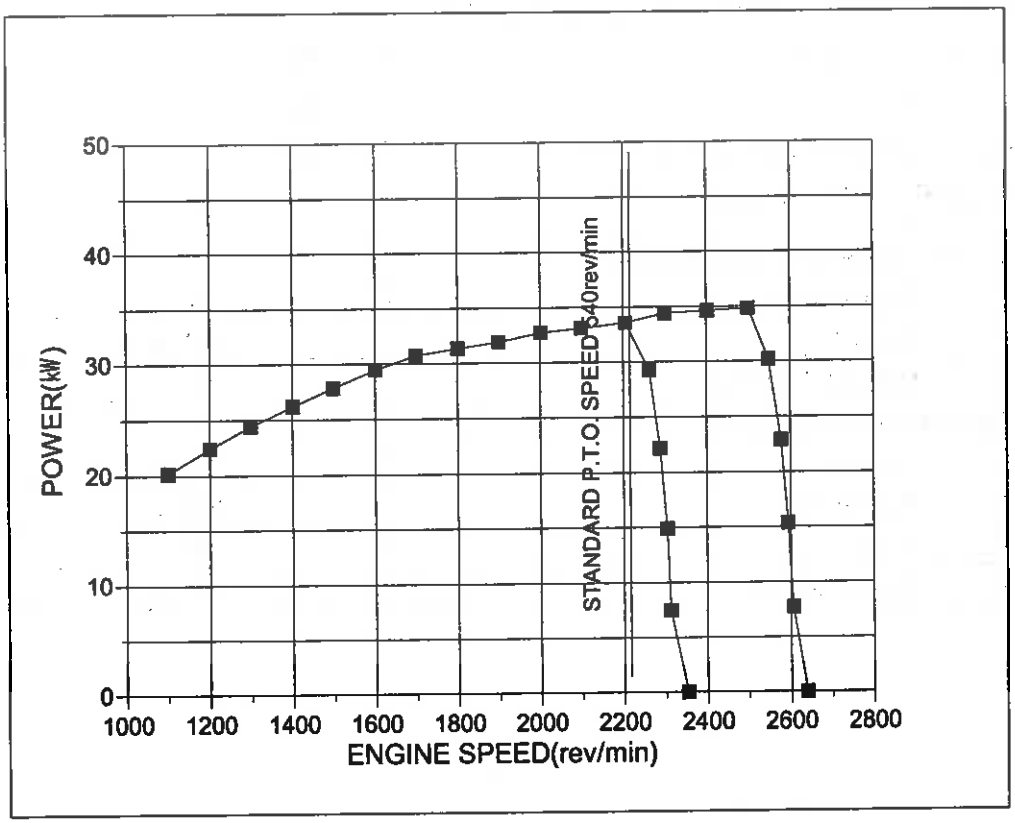
- Date and location of tests : 9th April to 13th April, 1999, NAMRI, Konjiam
- Type of dynamometer : Eddy current, FROUND AG 250

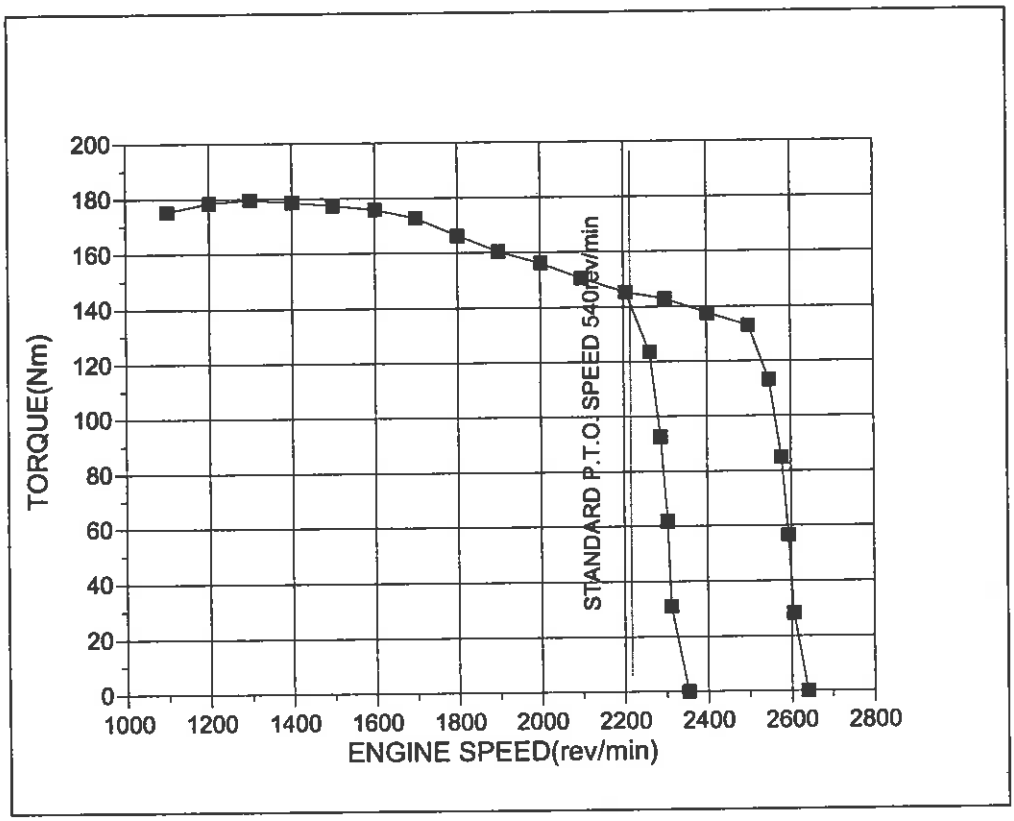
Power	Speed		Fuel consumption			Specific energy
	Engine	P.T.O	Hourly		Specific	
kW	rev/min		kg/h	ℓ/h	g/kWh	kWh/ℓ
3.1.1 MAXIMUM POWER - 2 HOURS TEST						
34.8	2500	612	9.33	11.32	268	3.076
3.1.2 POWER AT RATED ENGINE SPEED						
34.8	2500	612	9.33	11.32	268	3.076
3.1.3 STANDARD POWER TAKE-OFF SPEED (540±10 rev/min)						
33.6	2206	540	8.36	10.14	249	3.308
3.1.4 PART LOADS						
3.1.4.1 The torque corresponding to maximum power at rated engine speed						
34.8	2500	612	9.33	11.32	268	3.076
3.1.4.2 85% of torque obtained in 3.1.4.1						
30.2	2549	624	8.55	10.37	283	2.909
3.1.4.3 75% of torque defined in 3.1.4.2						
22.9	2578	631	7.30	8.86	319	2.584
3.1.4.4 50% of torque defined in 3.1.4.2						
15.4	2594	635	5.97	7.24	389	2.120
3.1.4.5 25% of torque defined in 3.1.4.2						
7.7	2606	638	4.60	5.58	596	1.383
3.1.4.6 Unloaded						
0	2639	646	3.43	4.17	-	-
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 available						
33.6	2206	540	8.36	10.14	249	3.308
3.1.5.2 85% of torque obtained in 3.1.5.1						
29.3	2263	554	7.60	9.22	260	3.174
3.1.5.3 75% of torque defined in 3.1.5.2						
22.2	2288	560	6.30	7.65	284	2.899
3.1.5.4 50% of torque defined in 3.1.5.2						
14.9	2304	564	5.08	6.16	341	2.416
3.1.5.5 25% of torque defined in 3.1.5.2						
7.5	2312	566	3.77	4.58	505	1.633
3.1.5.6 Unloaded						
0	2353	576	2.72	3.31	-	-

- No load maximum engine speed : 2639 rev/min
- Torque (equivalent crankshaft) at maximum power
  - At rated engine speed : 133.0 Nm
  - At 2-hour test : 133.0 Nm
- Maximum torque(equivalent crankshaft) : 179.6 Nm
  (engine speed : 1299 rev/min)

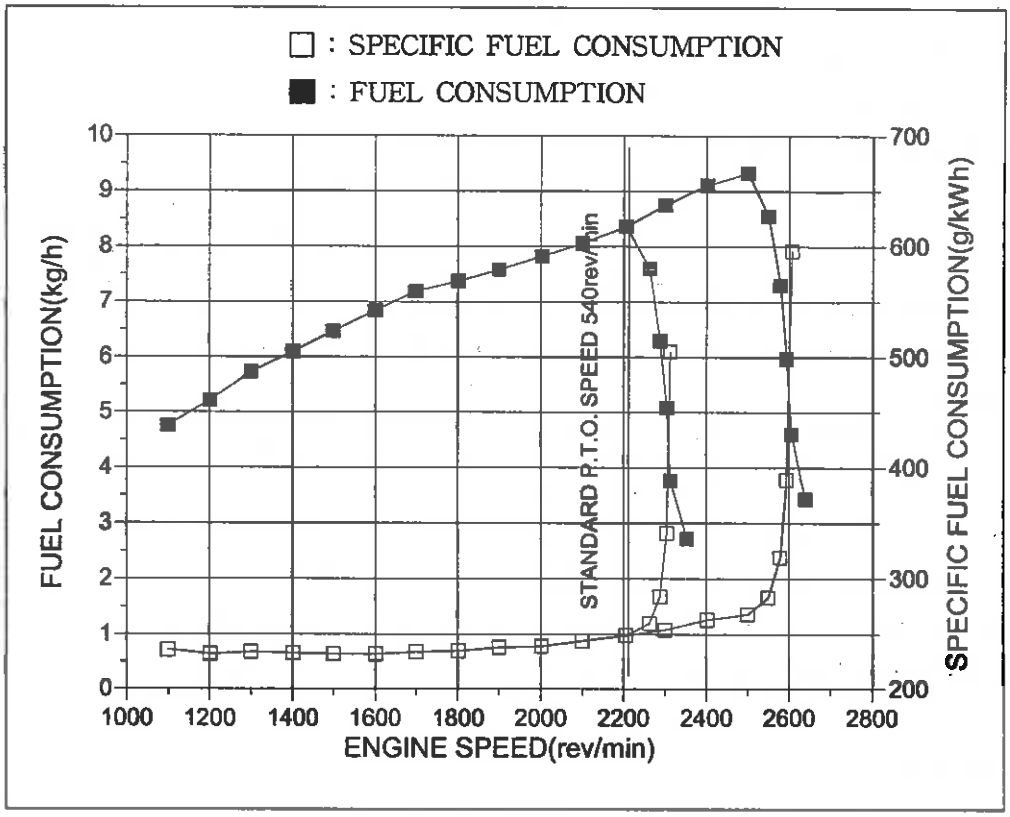
Mean atmospheric conditions	
Temperature	17 ℃
Pressure	989 kPa
Relative humidity	68 %
Maximum temperatures :	
Coolant	91 ℃
Engine oil	108 ℃
Fuel	49 ℃
Engine air intake	27 ℃

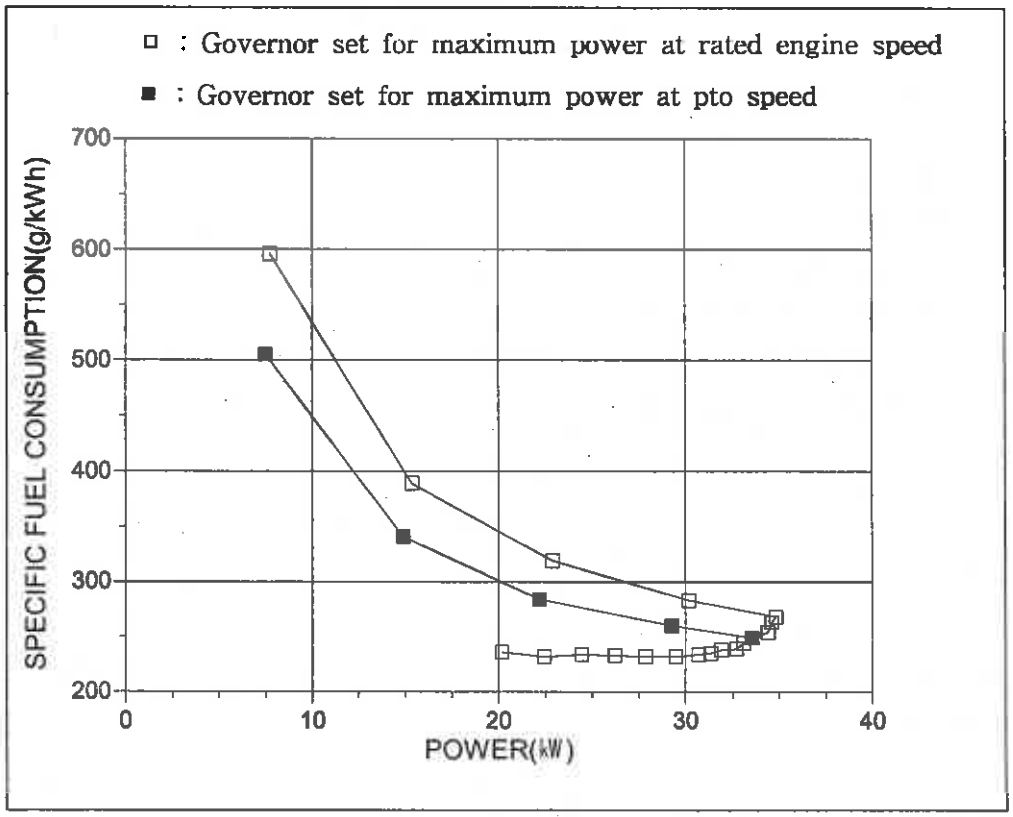
POWER TAKE - OFF PERFORMANCE CURVES





POWER TAKE - OFF PERFORMANCE CURVES





3.2 HYDRAULIC POWER AND LIFTING FORCE

- Date of tests : 28th April to 29th April, 1999

3.2.1 Hydraulic power test

- Sustained pressure with relief valve open : 15.90 MPa
- Pump delivery rate at minimum pressure : 35.49 ℓ/min

	Flow rate	Pressure	Power
	ℓ/min	MPa	kW
Flow rate corresponding to a hydraulic pressure equivalent to 90% of the actual relief valve pressure setting and corresponding hydraulic power	9.82	14.3	2.34
Flow rate and hydraulic pressure corresponding to maximum hydraulic power	32.42	11.8	6.38

- Tapping point used for test : Rear of tractor
- Temperature of hydraulic fluid if different from 65±5℃ : None
- Opening pressure of the unloading valve : Not available
- Closing pressure of the unloading valve : Not available

3.2.2 Power lift test

- Linkage settings for test - Table 1.1 and Figures 1.1 and 1.2

	At the hitch point	On the frame
Height of lower hitch point above ground in down position	198 mm	198 mm
Vertical movement		
without lifting forces	675 mm	765 mm
with lifting forces	645 mm	722 mm
Maximum corrected force exerted through full range	17.78 kN	12.45 kN
Corresponding pressure of hydraulic fluid	14.3 MPa	14.3 MPa
Moment about rear-wheel axis	15.79 kNm	18.65 kNm
Maximum tilt angle of mast from vertical	-	10 °

Lifting heights relative to the horizontal plane including the lower link pivot points											
mm	-292	-285	-200	-100	0	100	200	300	360	400	430
Lifting forces(the values of force measured shall be corrected to corresponding to a hydraulic pressure equivalent to 90% of the actual relief valve pressure setting of the hydraulic lifting system)											
At the hitch points, Corresponding pressure 14.3 MPa											
kN	-	17.96	19.33	19.85	20.58	21.17	20.78	19.50	17.78	-	-
At the frame, Corresponding pressure 14.3 MPa											
kN	16.93	-	17.59	17.69	17.74	16.90	16.41	15.71	-	14.54	12.45

3.3 DRAWBAR PERFORMANCE

- Date of tests : 8th July to 13th July, 1999
- Type of track : Asphalt

	Height of drawbar above ground	Tyre inflation pressure	
		Front	Rear
	mm	kPa	kPa
Unballasted	500	235.4	176.5
Ballasted	500	235.4	176.5

Gear number and range	Power	Drawbar pull	Speed	Engine speed	Slip of wheels	Specific fuel consum-ption	Specific energy	Temperatures			Atmospheric conditions		
								Fuel	Coolant	Engine oil	Tempe-rature	Relative humidity	Pressure
	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)													
L-3	14.3	14.09	3.65	2573	15.0	462	1.784	52	87	112	29	59	100.5
L-4	21.1	14.22	5.35	2550	15.0	385	2.142	55	88	114	30	58	100.5
H-1	27.4	11.93	8.26	2502	10.6	337	2.442	54	87	112	30	56	100.5
H-2	27.6	7.89	12.61	2500	5.7	335	2.460	52	85	110	29	59	100.6
H-3	26.4	5.44	17.47	2499	3.0	351	2.348	50	85	108	28	60	100.4
3.3.2 MAXIMUM POWER IN TESTED GEARS (ballasted tractor)(†)													
L-1	8.1	15.59	1.88	2591	15.1	645	1.278	50	85	102	30	49	100.4
L-2	11.7	15.57	2.70	2582	15.1	519	1.587	52	86	104	29	48	100.4
L-3	15.8	15.62	3.65	2576	15.1	443	1.861	53	86	105	29	47	100.4
L-4	23.4	15.77	5.34	2543	15.0	371	2.219	53	85	107	30	46	100.4
H-1	27.6	11.86	8.39	2501	9.3	334	2.469	54	87	112	31	45	100.4
H-2	27.9	7.98	12.59	2497	5.6	330	2.495	53	86	111	30	46	100.2
H-3	26.2	5.41	17.47	2496	2.9	352	2.339	51	84	109	29	45	100.4
3.3.3 FIVE-HOUR TESTS													
3.3.3.1 FIVE-HOUR TEST at 75% of pull at maximum power (at rated engine speed)													
H-1	21.9	8.90	8.87	2558	6.3	362	2.276	53	86	111	29	47	100.4
3.3.3.2 FIVE-HOUR TEST at pull corresponding to 15% wheelslip with additional ballast : 40 kg													
L-4	23.4	15.77	5.35	2546	(*)	(*)	(*)	52	85	110	28	45	100.4

(†) The creeper gears(LL-1, LL-2, LL-3, LL-4) are not to be used for heavy drawbar work.

(*) Those figures not quoted are irrelevant due to the additional ballast.

Oil consumption during ten hours duration of tests 3.3.3.1 and 3.3.3.2 : 3.5 g/h

3.4 TURNING AREA AND TURNING CIRCLE

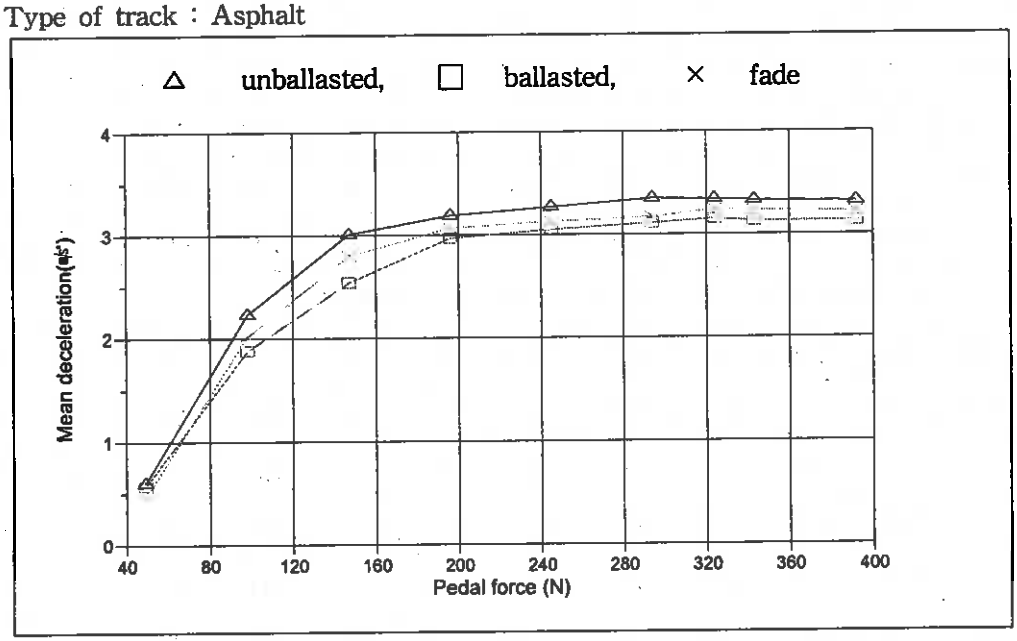
	With brakes		Without brakes	
	Right-hand	Left-hand	Right-hand	Left-hand
	mm	mm	mm	mm
Radius of turning area	3520	3650	4115	4220
Radius of turning circle	3270	3400	3865	3970

3.5 LOCATION OF CENTER OF GRAVITY

- Height above ground : 927 mm
- Distance from the vertical plane containing the axis of the rear wheels : 836 mm
- Distance from the median longitudinal plane of the tractor, to the right side : 7 mm

3.6 BRAKING

- Date of tests : 30th June ~ 2nd July, 1999
- Type of track : Asphalt



COLD SERVICE BRAKING DEVICE TEST AND FADE TEST

3.6.1 Cold service braking device test

	Ballasted tractor	Unballasted tractor
Speed before application of brakes(km/h)	28.22	28.30

- Maximum deviation of tractor from its original course : None
- Abnormal vibration : None
- Brake heating method : None

3.6.2 Fade Test

- Speed before application of brakes : 28.22 km/h
- Maximum deviation of tractor from its original course : None
- Abnormal vibration : None
- Brake heating method : Driven with brakes applied for 1km at 80% of maximum speed with a pedal force corresponding to a deceleration of 1㎨

3.6.3 Parking braking device test

	Uphill	Downhill
Braking device control force	343 N	338 N

3.7 Measurement of external noise level

- Date of tests : 29th April to 30th April, 1999
- Sound level meter, make/model : Brüel & kjær, 2236
- Type of track : Asphalt
- Gear number : H-4
- Travelling speed before acceleration : 20.3 km/h
- Sound level : 85.8 dB(A)

4. REPAIRS None

5. REMARKS None