N.A.M.R.I.

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. 1/1745**



Agricultural Tractor

LG LT470D(4WD)

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

NATIONAL AGRICULTURAL MECHANIZATION RESEARCH INSTITUTE
(NAMRI)
520-6 GONJIAM-RI, SILCHON-MYUN, KWANGJU-GUN, KYUNGGI-DO, 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 and C(95)17).

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

Report No. : 97-M-5-3
Duration of test : April 1997 till November 1997
Date of approval : April 2, 1998

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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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 120 hours
Location of test :	NAMRI

SPECIFICATIONS OF TRACTOR

TRACTOR

Make :	LG
Model :	LT470D
Type :	4 wheel drive
Serial No. :	LT47-G00650
1st Serial No. :	LT47-G00001

ENGINE

Make :	Own make
Model :	S4QL24T
Type :	4 stroke, water cooled, indirect injection diesel
Serial No. :	H700584

Cylinders

Number/disposition :	4, Vertical, in-line
Bore / stroke :	88mm / 103 mm
Capacity :	2505 ㎤
Compression ratio :	22 : 1
Arrangement of valves :	Overhead
Cylinder liners :	None

Supercharging

None

Fuel system

Fuel feed system :	Gravity
Filters	
Make :	Dongwoo Precision Co.
Model :	Q1250001

Type :	Replaceable paper element, cartridge type
Capacity of fuel tank :	55 dm³
Injection pump	
Make :	Lucas Diesel KOREA
Model :	K3943F81N
Type :	DPA
Serial No. :	00778MQK
Manufacturer's production setting of injection pump	
Flow rate :	10.80±0.5 dm³/h at rated engine speed and full load
Timing :	20 degrees before T.D.C
Injectors	
Make :	Lucas Diesel KOREA
Model :	BDNOPDN21
Type :	Single hole
Injection pressure :	11.76 MPa

Governor

Make :	Lucas Diesel KOREA
Model :	Q1250037
Type :	Mechanical
Governed range of engine speed :	From 750 to 2750 rev/min
Rated engine speed :	2600 rev/min

Air cleaner

Pre-cleaner	
Make :	Dae-Yang Industry Co.
Model :	A1190054
Type :	Cyclone type
Location of air intake :	Under the bonnet, in front of the radiator
Main cleaner	
Make :	Ssang-Ma Engineering.
Model :	A1190079
Type :	Oil bath
Maintenance indicator :	None

Lubrication system

Type of feed pump :	Forced-feed from rotor pump
Type of filter :	Full flow, replaceable canister
Number of filters :	1

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 :	380 mm
Coolant capacity :	7.5 dm³ (Radiator 3.0 dm³ + Engine 4.5 dm³)
Type of temperature control :	Wax type thermostat
Superpressure system :	88.3 kPa, radiator cap

Starting system

Make :	Mando Machinery Co., Ltd.
Model :	Q1700001
Type :	Electrical, pre-engaged, solenoid operated
Starter motor power rating :	2.2 kW
Cold starting aid :	Electrothermal plug, 12V
Safety device :	Starting operable only when main clutch pedal fully depressed and PTO clutch disengaged

Electrical system

Voltage :	12 V
Generator	
Make :	Mando Machinery Co.
Model :	Q1750001
Type :	3 phase generator
Power :	0.54 kW
Battery	
Number :	1
Rating :	80Ah at 5 hours rating

Exhaust system

Make :	Se-Sin Engineering Co.
Model :	A1151098
Type :	Horizontal silencer
Location :	Under bonnet, left hand side

TRANSMISSION

Clutch (travel)

Make :	Seojin-Daiktn Co.

Model :	A1250066
Type :	Dry for transmission only
Number of plates :	1
Diameter of plates :	275 mm
Method of operation :	Mechanically actuated by pedal

Gear box

Make :	Own make
Model :	A1280093
Type :	Mechanical
Arrangement :	Synchromesh 4 speed gears with main lever, Constant mesh 2 speeds (H/L) gears with sub-lever, Additional constant mesh creep gear (CR), adding 8 forward and 8 reverse gears, Synchromesh type forward/reverse with shuttle lever
Number of gears :	16 forward, 16 reverse
Available options :	None

Rear axle and final drives

Make :	Own make
Model :	A1480042
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

Front axle and final drives

Make :	Youngjin-Precision Industries Co.
Model :	A1400108
Type :	Bevel gear type differential and bevel gear type final drives
Differential lock	
Type :	None
Method of engagement :	None
Method of disengagement :	None

Total ratios and travelling speeds

Gear No	Group or range	Number of engine revolutions for one revolution of the driving wheels		Nominal travelling speed(*) at rated engine speed of 2600 rev/min (km/h)	
		Forward	Reverse	Forward	Reverse
1	C-L-1	2575.02	2055.77	0.22	0.29
2	C-L-2	1567.40	1430.12	0.38	0.42
3	C-L-3	1159.88	1058.27	0.52	0.56
4	C-L-4	783.70	715.22	0.76	0.84
5	C-H-1	597.11	476.68	1.00	1.25
6	C-H-2	415.38	331.61	1.44	1.80
7	C-H-3	307.38	245.41	1.95	2.44
8	C-H-4	207.69	165.84	2.88	3.61
9	L-1	349.52	279.03	1.71	2.14
10	L-2	243.14	194.11	2.46	3.08
11	L-3	179.93	143.64	3.32	4.16
12	L-4	121.57	97.05	4.92	6.16
13	H-1	81.05	64.70	7.38	9.24
14	H-2	56.38	45.01	10.61	13.28
15	H-3	41.72	33.01	14.33	17.95
16	H-4	28.19	22.51	21.21	26.56
(*) Calculated with the dynamic radius index of 610 mm(ISO 4251/1-1992).					

Number of revolutions of front wheels for one revolution of rear-wheels : 1.39

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

POWER TAKE-OFF

Main power take-off

Type : Independent PTO

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 ends and speeds : Manually by hand lever

Power take-off proportional to engine speed

540 rev/min

Location : Rear of tractor

Diameter of power take-off shaft end : 35 mm

Number of splines : 6 to ISO 500/1991

Height above ground : 644 mm

Distance from the median plane of the tractor : 5 mm

Distance behind rear-wheel axis : 344 mm

PTO speed at rated engine speed (2600rev/min) :	585 rev/min
Engine speed at standard power take-off speed :	2400 rev/min
Ratio of rotation speeds (engine speed / p.t.o speed) :	4.444 : 1
Power restriction and maximum torque :	None
Direction of rotation (viewed from behind tractor) :	Clockwise
Power take-off proportional to ground speed :	None

POWER LIFT

Make :	Hyundai Precision Co.
Model :	A1820033
Type :	Hydraulic three point hitch (Position, draft and mix 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 :	15.6 ~ 16.4 MPa
Opening pressure of cylinder safety valve :	19.6 MPa
Lift pump type :	Gear pump
Transmission between pump and engine :	Driven by engine
Type and number of filters :	1, paper 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

Three-point linkage

Category : 1 to ISO730/1-1994

Category adapter : None

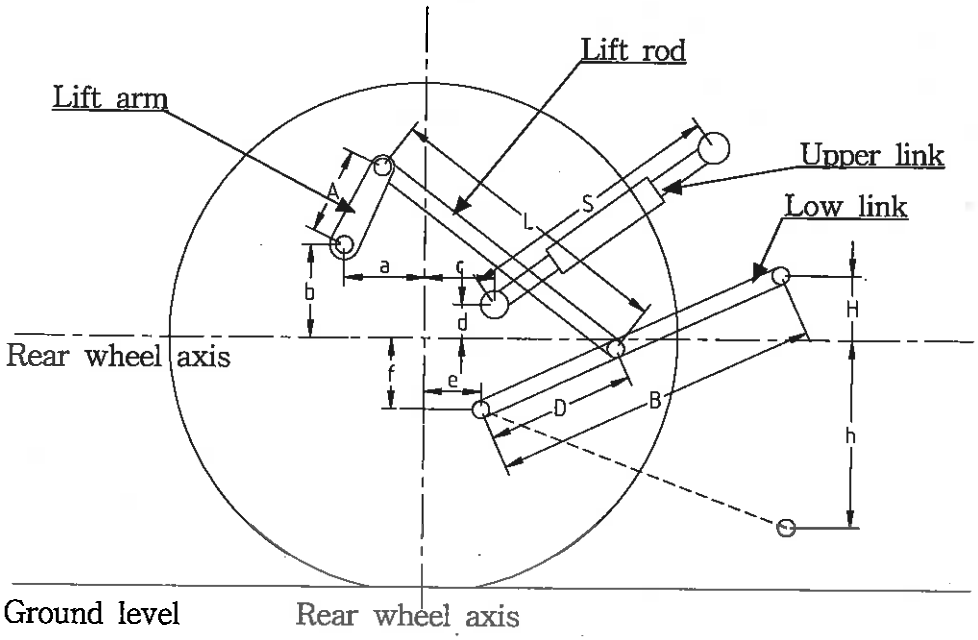


Figure 1.1 Linkage geometry

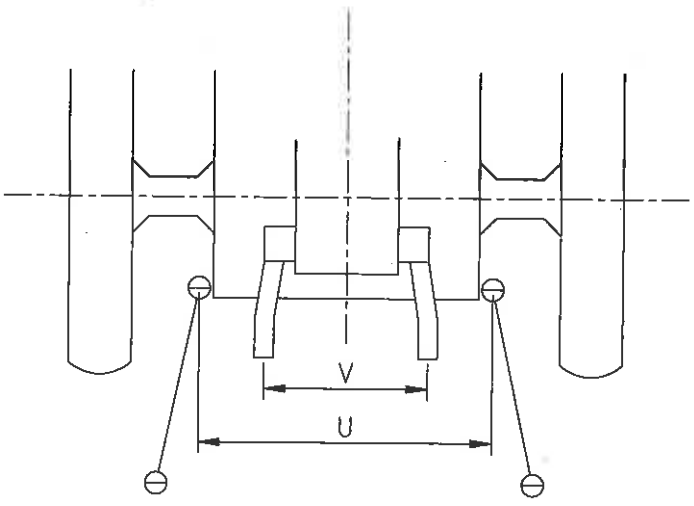


Figure 1.2 Linkage geometry

			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)	445	445
Length of upper link		(S)	from 482 to 720	555
Distance of upper link pivot point from rear wheel axis	horizontally	(c)	324	324
	vertically	(d)	258	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)	342	342
Length of lift rods		(L)	from 440 to 510	475
Height of lower hitch points relative to the rear-wheel axis				
- in low position		(h)	from 292 to 458	410
- in high position		(H)	from 229 to 347	230
Height above ground of lower hitch points when locked in transport position(*)			Any height within lift range(Hydraulic Transport Lock)	

(*)Assuming the dynamic radius index = 610mm (ISO 4251/1-1992)

Table 1.1 Dimensions of linkage geometry
(when connected to the standard frame)

SWINGING DRAWBAR : None

TRAILER HITCH

Type	
Hole diameter :	29 mm
Height above ground :	410 mm
Distance of hitch point from rear-wheel axis, horizontally :	422 mm
Distance of hitch point from power take-off shaft end	
· Vertically :	182.5 mm
· Horizontally :	78 mm
Maximum vertical permissible load :	7 kN

HOLED DRAWBAR

None

STEERING

Make :	Sumitomo Eaton Hydraulics Co.
Model :	UCS120B16A2D
Type :	Hydrostatic
Method of operation :	
Pump :	Gear pump
Ram :	2 single acting ram actuating directly on front axle
Working pressure :	12.25 MPa

BRAKES

Service brake

Make :	Jin Myoung Metal Co.
Model :	A1650069
Type :	Oil-immersed multiplate discs, 3 per side
Method of operation :	Independent or combined pedal on rear wheels
Trailer braking take-off :	None

Parking brake

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

WHEELS

Number	
Front :	2, steering and driving
Rear :	2, driving
Wheelbase :	1850 mm

Track width adjustment :

	Minimum (mm)	Maximum (mm)	Adjustment method
Front	1256	1564	By reversing wheels and offset lug rims
Rear	1234	1536	

PROTECTIVE STRUCTURE

Make : Samsin Precision Co.

Model : A1880004

Type : Safety Frame

Manufacture's name and address : Samsin Precision/2-3, Dangjung-dong, Gunpo-si, Kyunggi-do, KOREA

Protective device : Frame

OECD approval number : None

SEAT

Driver's seat

Make : Haesung Trading Co.

Model : A1850071

Type of suspension : Spring

Seat and steering wheel reversible : No

Type of damping : Hydraulic

Range of adjustment

· Longitudinal : 152 mm

· Vertical : 96 mm

Safety belt : No

Optional driver's seat(s) No

Passenger seat No

LIGHTING

	Height above ground of center (mm)	Size (mm)	Distance from outside edge of lights to median plane of tractor (mm)
Headlights	942	162×104	150
Sidelights	917	157×57	243
Rearlights	1408	121×68	553
Reflectors	1856	210×170	715

TEST CONDITIONS

OVERALL DIMENSIONS

	Length (mm)	Width		Height at top of	
		minimum (mm)	maximum (mm)	protective structure (mm)	exhaust silencer (mm)
Ballasted	3655	1670	2062	2330	2270
Unballasted	3470	1670	2062	2330	2270

Ground clearance (unballasted tractor) : 365 mm

Clearance-limiting part : Front axle housing

TRACTOR MASS AND BALLAST

Mass(with frame)

	Ballasted		Unballasted	
	Without driver (kg)	With driver (kg)	Without driver (kg)	With driver (kg)
Front	1019	1029	896	905
Rear	1121	1186	1154	1220
Total	2140	2215	2050	2125

BALLAST

	Weights		Water (kg)
	Number	Total mass (kg)	
Front	6	90	-
Rear	-	-	-
Optional	-	-	-

TYRES AND TRACK WIDTH SPECIFICATIONS

	Front	Rear
Tyres		
· dimensions	9.5-20	13.6-28
· ply rating	6	6
· type	Diagonal	Diagonal
· maximum load (tyre manufacturer's)	8.24 kN	14.03 kN
· maximum load (tractor manufacturer's)	8.24 kN	14.03 kN
· inflation pressure (tyre manufacturer's)	215 kPa	156 kPa
· dynamic radius index	445 mm	610 mm
Chosen track width	1340 mm	1290 mm

OILS AND LUBRICANTS

- **Capacity and change interval**

	Capacity (dm³)	Oil change (h)	Filter change (h)
Engine	8	100	100
Gear box in common with hydraulic system and steering	38	200	200
Front axle and final drives	10	200	-
Rear axle and final drives	4.5×2	150	-

- **Specifications**

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

Grease : Multi purpose grease

Number of lubrication points : 11

Fuel

Type : Diesel fuel No2, in conformity with Korean Standard(KS M 2620)

Density at 15℃ : 0.8396 g/cm³

COMPULSORY TESTS RESULTS

1. MAIN POWER TAKE-OFF PERFORMANCE

Date and location of tests : 20th August, 1997, NAMRI, Korea

Type of dynamometer : FROUD AG250

Power kW	Speed		Fuel consumption			Specific energy kWh/ℓ
	Engine rev/min	P.T.O rev/min	Hourly kg/h	Hourly ℓ/h	Specific g/kWh	
1.1 MAXIMUM POWER - TWO-HOUR TEST						
32.02	2600	585	9.25	11.02	289	2.906
1.2 POWER AT RATED ENGINE SPEED						
32.02	2600	585	9.25	11.02	289	2.906
1.3 STANDARD POWER TAKE-OFF SPEED (540 rev/min)						
30.44	2400	540	8.75	10.42	287	2.921
1.4 PART LOADS 1.4.1 The torque corresponding to maximum power at rated engine speed						
32.02	2600	585	9.25	11.02	289	2.906
1.4.2 85% of torque obtained in 1.4.1						
27.53	2630	592	8.60	10.24	312	2.688
1.4.3 75% of torque defined in 1.4.2						
21.36	2720	612	7.00	8.34	328	2.561
1.4.4 50% of torque defined in 1.4.2						
14.34	2740	617	5.50	6.55	383	2.189
1.4.5 25% of torque defined in 1.4.2						
7.22	2760	621	4.20	5.00	581	1.444
1.4.6 Unloaded						
0	2769	623	2.96	3.53	-	-

Power	Speed		Fuel consumption			Specific energy
			Hourly		Specific	
kW	Engine rev/min	P.T.O rev/min	kg/h	ℓ/h	g/kWh	kWh/ℓ
1.5 PART LOADS AT STANDARD POWER TAKE-OFF SPEED(540 rev/min)						
1.5.1 The torque corresponding to maximum power available						
30.44	2400	540	8.75	10.42	287	2.921
1.5.2 85% of torque obtained in 1.5.1						
26.31	2440	549	7.95	9.47	302	2.779
1.5.3 75% of torque defined in 1.5.2						
19.98	2471	556	6.45	7.68	323	2.601
1.5.4 50% of torque defined in 1.5.2						
13.54	2511	565	5.00	5.96	369	2.273
1.5.5 25% of torque defined in 1.5.2						
6.83	2533	570	3.80	4.53	556	1.509
1.5.6 Unloaded						
0	2556	575	2.97	3.54	-	-

Other results

No load maximum engine speed : 2769 rev/min

Torque (equivalent crankshaft) at maximum power

-at rated engine speed : 117.61 Nm

-at standard power take-off speed : 121.14 Nm

Maximum torque (equivalent crankshaft) : 130.40 Nm

(engine speed : 1450 rev/min)

Mean atmospheric conditions

Temperature : 25 ℃

Pressure : 102.0 kPa

Relative humidity : 35 %

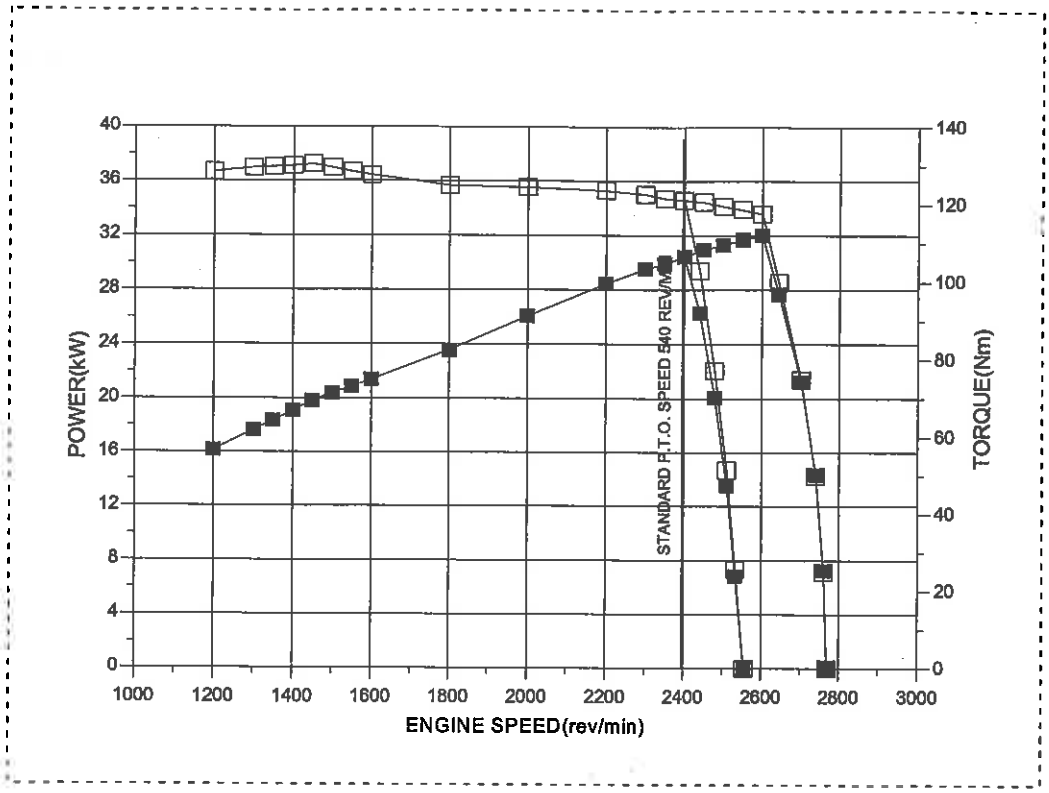
Maximum temperatures

Coolant 90 ℃

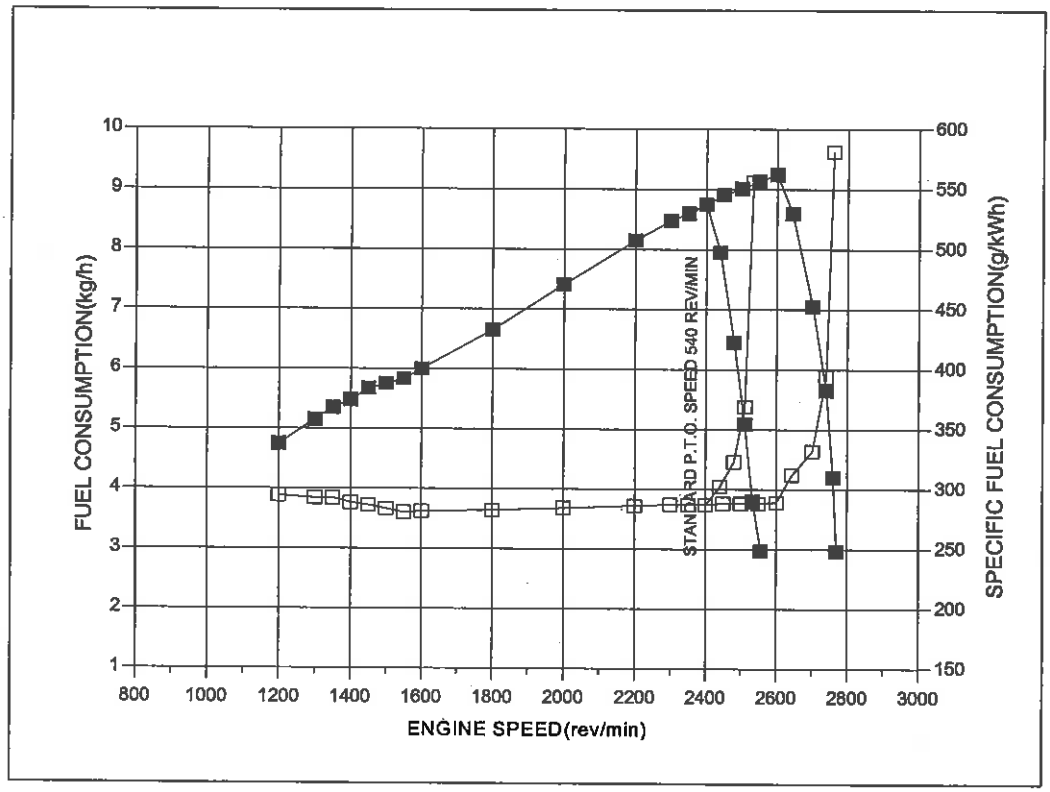
Engine oil : 110 ℃

Fuel : 35 ℃

Engine air intake : 33 ℃

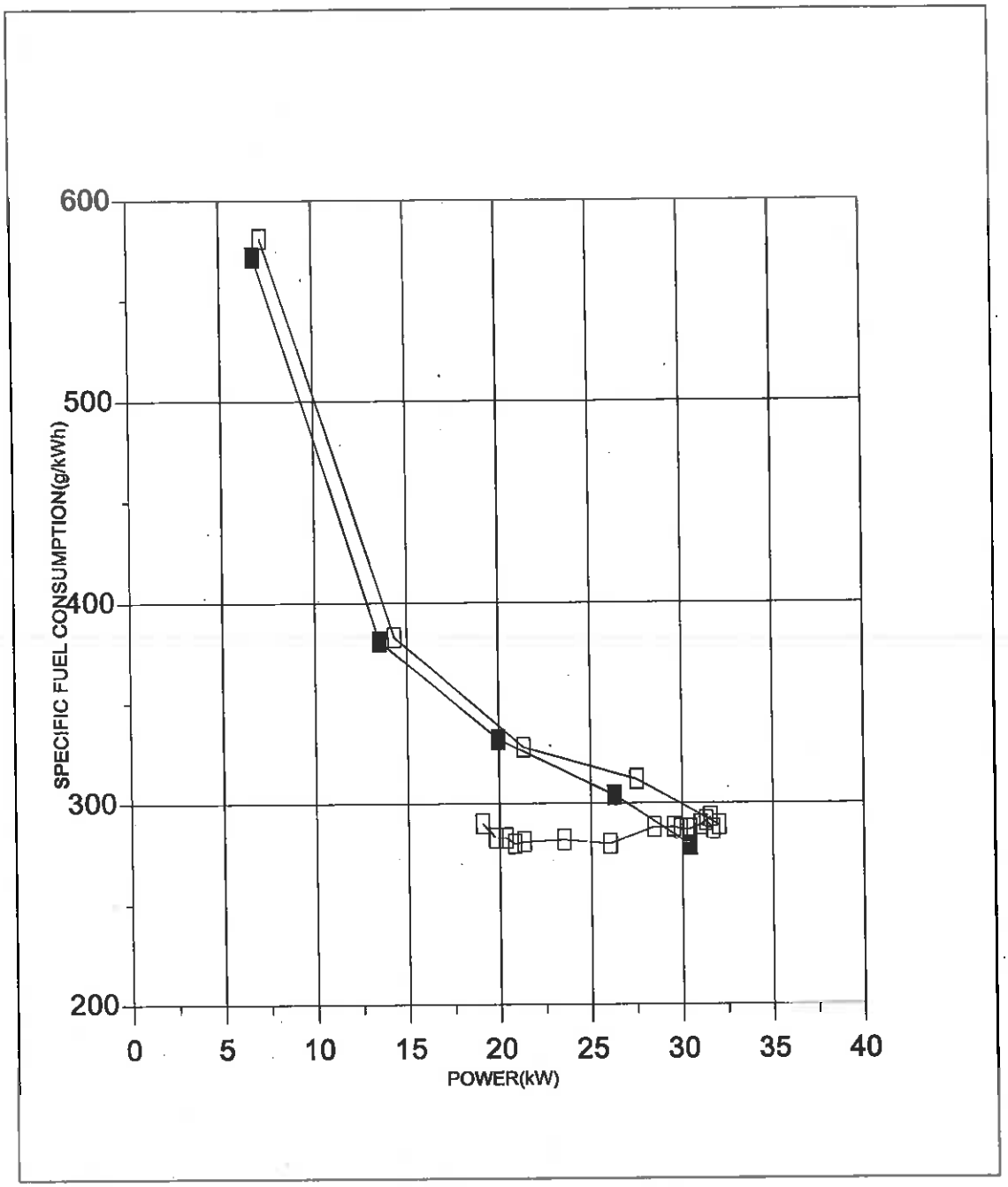


□ : TORQUE(Nm) ■ : POWER(kW)



□ : SPECIFIC FUEL CONSUMPTION(g/kWh) ■ : FUEL CONSUMPTION(kg/h)

POWER TAKE - OFF PERFORMANCE



□ : Governor set for maximum power at rated speed

■ : Governor set for maximum power at pto speed

POWER TAKE - OFF PERFORMANCE

Date of tests : 1st October, 1997

2.1 HYDRAULIC POWER TEST

Sustained pressure with relief valve open : 14.74 MPa

Pump delivery rate at minimum pressure : 43.4 ℓ/min

	Flow rate ℓ/min	Pressure MPa	Power kW
Flow rate corresponding to a hydraulic pressure equivalent to 90% of the actual relief valve pressure setting and corresponding hydraulic power	25.3	14.74	6.22
Flow rate and hydraulic pressure corresponding to maximum hydraulic power	36.4	12.75	7.73

Tapping point used for test : Rear of tractor

Temperature of hydraulic fluid if different from 65±5℃ : -- ℃

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 without lifting forces with lifting forces	 mm mm	 640 616	 791 732
Maximum corrected force exerted through full range	kN	14.30	10.99
Corresponding pressure of hydraulic fluid	MPa	14.74	14.74
Moment about rear axle	kNm	12.70	16.46
Maximum tilt angle of mast over range of lift	degrees	-	9

Lifting heights relative to the horizontal lower links												
mm	-315	-300	-253	-200	-100	0	100	200	300	363	400	417
Lifting forces at hitch points, corrected to 14.74 MPa												
kN	-	-	14.30	14.79	15.28	16.09	16.68	17.57	16.95	16.66	-	-
Lifting forces at test frame, corrected to 14.74 MPa												
kN	12.92	13.01	-	13.55	13.82	14.02	13.67	13.12	12.51	-	12.00	10.99

3. DRAWBAR PERFORMANCE

3. DRAWBAR PERFORMANCE

Date of test : 20th October, 1997

Type of track : Asphalt

	Height of drawbar above ground (mm)	Tyre inflation pressure	
		Front (kPa)	Rear (kPa)
Unballasted	410	196	117
Ballasted	410	196	117

Gear 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
3.1 MAXIMUM POWER IN TESTED GEARS (unballasted tractor)													
L-1	7.9	17.9	1.59	2715	15.0	906	0.93	31	82	104	17	57	98.7
L-2	11.1	17.5	2.29	2671	15.0	680	1.23	30	81	104	17	58	98.7
L-3	14.3	16.7	3.09	2643	15.0	581	1.44	31	81	105	18	57	98.8
L-4	20.5	16.1	4.56	2623	15.0	428	1.96	30	82	104	18	58	98.7
H-1	29.0	15.1	6.91	2603	8.6	325	2.59	29	82	103	18	57	98.7
H-2	28.4	10.2	10.05	2602	7.6	333	2.52	31	81	102	19	58	98.8
H-3	27.3	7.1	13.93	2598	5.0	347	2.42	30	82	102	18	58	98.7
3.2 MAXIMUM POWER IN TESTED GEARS (ballasted tractor)													
L-1	8.0	18.2	1.59	2710	15.0	907	0.93	30	83	103	17	57	98.7
L-2	11.2	17.7	2.28	2664	15.0	717	1.17	31	82	103	17	57	98.8
L-3	14.7	17.1	3.09	2637	15.0	566	1.48	30	83	102	18	57	98.7
L-4	20.9	16.5	4.57	2622	15.0	422	1.99	30	83	104	17	58	98.7
H-1	30.2	15.7	6.93	2604	8.3	308	2.73	31	84	103	17	58	98.8
H-2	29.8	10.6	10.14	2603	6.8	312	2.69	30	83	102	18	57	98.9
H-3	28.3	7.2	14.17	2597	3.3	330	2.54	31	82	102	17	57	98.8
3.3 FIVE-HOUR TESTS													
3.3.1 FIVE-HOUR TEST at 75% of pull at maximum power													
H-1	24.3	11.8	7.43	2650	3.4	332	2.53	31	82	102	18	57	98.7
3.3.2 FIVE-HOUR TEST at pull corresponding to 15% wheelslip with additional ballast : 30 kg													
L-4	20.9	16.5	4.55	2620	-	-	-	30	83	103	17	57	98.7

Oil consumption during ten hours duration of tests 3.3.1 and 3.3.2 : 5.1 g/h

4. TURNING AREA AND TURNING CIRCLE

Front wheel drive disengaged

	With brakes		Without brakes	
	Right-hand (m)	Left-hand (m)	Right-hand (m)	Left-hand (m)
Radius of turning area	3.12	3.13	3.54	3.56
Radius of turning circle	2.88	2.89	3.31	3.33

5. LOCATION OF CENTER OF GRAVITY

Height above ground : 820 mm

Distance forward from the vertical plane containing the axle of the rear-wheel : 787 mm

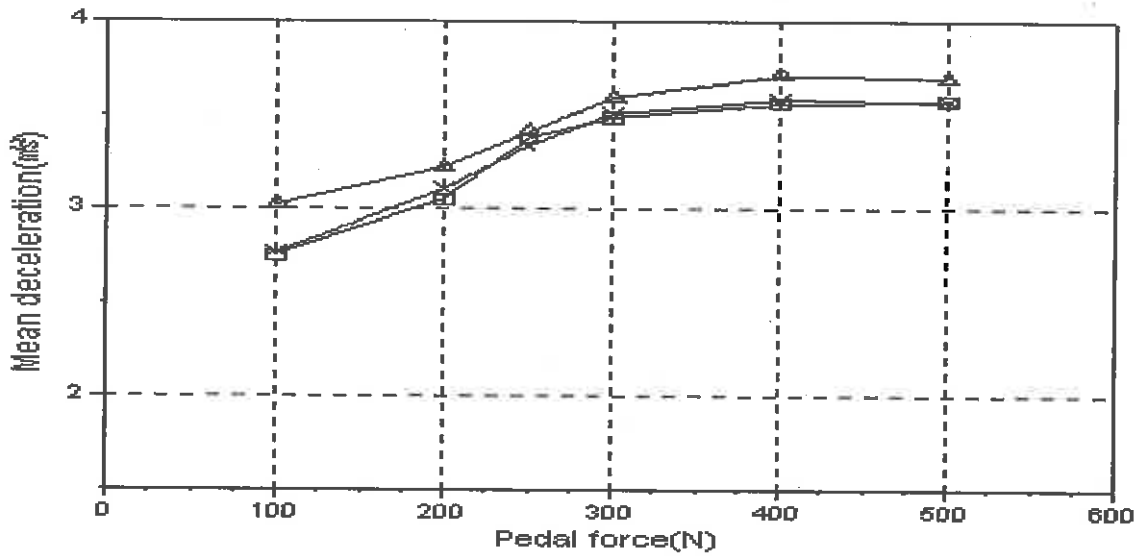
Distance from the median plane of the tractor to the left : 4 mm

6. BRAKING

Date of tests : 13th October, 1997

Type of track : Asphalt and concrete

	Speed before application of brakes (km/h)	Tractor mass (with driver)		
		Front (kg)	Rear (kg)	Total (kg)
Ballasted tractor	23.72	1029	1186	2215
Unballasted tractor	23.94	905	1220	2125



△ unballasted, □ ballasted, × fade

COLD SERVICE BRAKING DEVICE TEST AND FADE TEST

6.1 COLD SERVICE BRAKING DEVICE TEST

	Ballasted tractor	Unballasted tractor
Speed before application of brakes (km/h)	23.72	23.94

Maximum deviation of tractor from its original course : None

Abnormal vibration : None

Brake heating method : None

6.2 FADE TEST

Speed before application of brakes : 23.72 km/h

Maximum deviation of tractor from its original course : None

Abnormal vibration : None

Brake heating method : By means of towing the tractor for 1km at 18.98km/h with a towing force of 21.72 kN

6.3 PARKING BRAKE

	Ballasted tractor on 18% slope	
	Uphill (N)	Downhill (N)
Braking device control force	173	173

7. MEASUREMENT OF EXTERNAL NOISE LEVEL

Date of tests : 12th September, 1997

Type of track : Asphalt

Type of sound level meter : Bruel & Kjaer model 2236

Gear	Travelling speed before acceleration (km/h)	Sound level (dB(A))
H - 4	17.59	87.9

8. REPAIRS AND ADJUSTMENTS DURING TESTS None

9. REMARKS None