Report on test in accordance with
O.E.C.D. STANDARD CODE 1 for the Official
Testing of Agricultural Tractor Performance

FULL CODE

O.E.C.D. Approval No. : 1/1928
Date of approval : 6th October, 2000



Agricultural Tractor

DAEDONG L3503-D(4WD)

Manufactured by : DAEDONG INDUSTRY Co., Ltd.
1-12, Buk-ri, Nongong-eub, Dalsung-kun,
Daegu-city, KOREA

NATIONAL AGRICULTURAL MECHANIZATION RESEARCH INSTITUTE
249, Seodun-dong, Kwonson-gu, Suwon-city, 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).

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

Report No. : 99-M-5-12
Duration of test : March till July, 2000
Date of approval : 6th October, 2000

This report has been approved by the OECD Co-Ordinating Centre (CEMAGREF, France) as being in accordance with the OECD STANDARD CODE 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 kgf	=	9.80665 N
Powers	1 PS	=	0.7355 kW
Pressures	1 kgf/㎠	=	98.0665 kPa

All rights including the right of translation, reprint and photomechanical copying are reserved by The National Agricultural Mechanization Research Institute.

Printed in the Republic Of KOREA, November 2000 ; NAMRI

TABLE OF CONTENTS

	page
SPECIFICATIONS OF TRACTOR	4 to 13
TEST CONDITIONS	13 to 15
COMPULSORY TESTS RESULTS	
Main power take-off performance	16 to 19
Hydraulic power and lifting force	20
Drawbar performance	21
Turning area and turning circle	22
Location of center of gravity	22
Braking performance	22 to 24
Measurement of external noise level	24
REPAIRS	24
REMARKS	24

- Tractor manufacturer's name and address : Daedong Industry Co., Ltd 1-12, Buk-ri, Nongong-eub, Dalsung-kun, Daegu-city, Korea
- Location of tractor assembly : 1-12, Buk-ri, Nongong-eub, Dalsung-kun, Daegu-city, Korea
- Submitted for test by : The manufacturer
- Selected for test by : The manufacturer in agreement with the test station
- Place of running-in : Daedong Industry Co., Ltd
- Duration of running-in : Engine and tractor 58 hours
- Location of test : NAMRI

1. SPECIFICATIONS OF TRACTOR

1.1 IDENTIFICATION

- Make : Daedong
- Model : L3503-D
- Type : Wheeled tractor, unit construction
- Number of driving wheels : 4
- Serial No. : 935400009
- 1st Serial No. : 925400001

1.2 ENGINE

- Make : Own make
- Model : TD1700B
- Type : 4 stroke, water cooled, indirect diesel, naturally aspirated
- Serial No. : 935501289

1.2.1 Cylinders

- Number/disposition : 4 / Vertical, in-line
- Bore/stroke : 82 mm /82 mm
- Capacity : 1732 ㎤
- Compression ratio : 21.0 : 1
- Arrangement of valves : Overhead
- 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 : Buil
  - Model : None
  - Type : Replaceable element
- Capacity of fuel tank : 40 ㎥

- Injection pump
  - Make : Doowon
  - Model : PFR-3KD
  - Type : Bosch, type k
  - Serial No. : None
- Manufacturer's production setting of injection pump
  - Flow rate : 7.75±0.35 dm³/h (rated engine speed and full load)
  - Timing : 25 degrees before T.D.C
- Injectors
  - Make : Doowon
  - Model : None
  - Type : Throttle type
- Injection pressure : 13.7~14.7 MPa

1.2.4 Governor
- Make : Hanil
- Model : None
- Type : Centrifugal ball mechanical
- Governed range of engine speed : From 850±50 to 2900±50 rev/min
- Rated engine speed : 2600 rev/min

1.2.5 Air cleaner
- Pre-cleaner
  - Make : Namsin
  - Model : None
  - Type : Dry
  - Location of air intake : None
- Main-cleaner
  - Make : Namsin
  - Model : None
  - Type : Dry type
  - Location of air intake : Under the bonnet, in front of the radiator
- Maintenance indicator : None

1.2.6 Lubrication system
- Type of feed pump : Rotor
- Type of filter(s) : 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 : Belt driven, puller
  - Number of fan blades : 7
  - Fan diameter : 380 mm
- Coolant capacity : 8.9 dm³

- Type of temperature control :	Wax pellet type thermostat
- Superpressure system :	88.2 kPa, at radiator cap

1.2.8 Starting system

- Make :	Valleo-Mando
- Model :	MG120561
- Type :	Electrical, pre-engaged, solenoid operated
- Starter motor power rating :	2.0 kW
- Cold starting aid :	Electrical glow plug
- Safety device :	Starting operable only when main clutch pedal fully depressed

1.2.9 Electrical system

- Voltage :	12 V
- Generator	
· Make :	Valleo-Mando
· Model :	AG-135DA
· Type :	3 phase generator
· Power :	0.42 kW
- Battery of accumulators	
· Number :	1
· Rating :	80 Ah at 20 hours rating

1.2.10 Exhaust system

- Make :	Sindong
- Model :	None
- Type :	Silence
- Location :	On the left side of engine cowling, vertical position

1.3 TRANSMISSION

1.3.1 Clutch(travel and power take-off)

- Make :	Pyeong Hwa
- Model :	225NY22AX/202
- Type :	Dry single plate
- Number of plates :	1
- Diameter of plates :	225 mm
- Method of operation :	Mechanically actuated by pedal

1.3.2 Gear box

- Make :	Daedong Gear
- Model :	None
- Type :	Mechanical
- Description :	4 main gear with constant-mesh and synchro-mesh, 2 range gear with constant-mesh, 8 forward and 8 reverse

	Forward	Reverse
Number of gears	4	4
Number of ranges	2	2
Total of arrangements	8	8

- Available options : None

1.3.3 Rear axle and final drives

- Make : Daedong-Gear
- Model : None
- Type : Bevel gear type differential and helical gear type final drives
- Differential lock
  - Type : Mechanical
  - Method of engagement : Mechanical actuated by foot pedal
  - Method of disengagement : Self-disengagement by spring

1.3.4 Front axle and final drives

- Make : Daedong-Gear
- Model : None
- Type : Bevel gear differential and bevel gear type final drives
- Differential lock : None

1.3.5 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 min $^{-1}$(rev/min) km/h	
		Forward	Reverse	Forward	Reverse
1	L-1	327.955	363.914	1.67	1.51
2	L-2	261.149	289.784	2.10	1.89
3	L-3	189.485	210.262	2.90	2.61
4	L-4	123.894	137.479	4.43	3.99
5	H-1	85.091	94.421	6.45	5.81
6	H-2	67.758	75.187	8.10	7.30
7	H-3	49.164	54.554	11.16	10.06
8	H-4	32.145	35.670	17.08	15.39

(*)Calculated with a tyre dynamic radius index of 560 mm(ISO 4251-1:1992)

Number of revolutions of front wheels for one revolution of rear-wheels : 1.676

Range selection : L = Low, H = High

1.4 POWER TAKE-OFF

1.4.1 Main power take-off

- Type : Not independent(transmission driven)
- Method of engagement : Mechanically actuated by pedal
- 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 540min^{-1}(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 : 540 mm
- Distance from the median plane of the tractor : 0 mm
- Distance behind rear-wheel axis : 167 mm
- PTO speed at rated engine speed, and engine speed at standard power take-off speed:

PTO speed (rev/min)	Engine speed (rev/min)	Engine/PTO transmission ratio
578	2600	4.502
540	2431	
726	2600	3.581

- Power restriction : None
- Maximum torque transmissible : None
- Direction of rotation(viewed from behind tractor) : Clockwise

Power take-off at 1000 min^{-1}(rev/min)

- Location: Rear of the tractor
- Diameter of power take-off shaft: 35 mm
- Number of splines: 6, in conformity with ISO 500/1991
- Height above the ground: 540 mm
- Distance from the median plane of the tractor: 0 mm
- Distance behind rear-wheel axis: 167 mm
- PTO speed at rated engine speed, and engine speed at standard power take-off speed:

PTO speed (rev/min)	Engine speed (rev/min)	Engine/PTO transmission ratio
1000	2600	2.600

- 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 :	Daemyung
- Model :	None
- Type :	Hydraulic, three hitch point
- 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 :	15.2±0.5 MPa
- Opening pressure of cylinder safety valve :	None
- Lift pump type :	Gear type
- Transmission between pump and engine :	Driven by engine cam shaft
- Type and number of filters :	Cartridge type, 1
- Site of oil reservoir :	Transmission housing
- Type, number and location of tapping points :	None
- Maximum volume of oil available to external cylinders :	None

1.6 THREE POINT LINKAGE

- Category : 1, in conformity with ISO730-1:1994+Cor.1:1995
- Category adapter : None

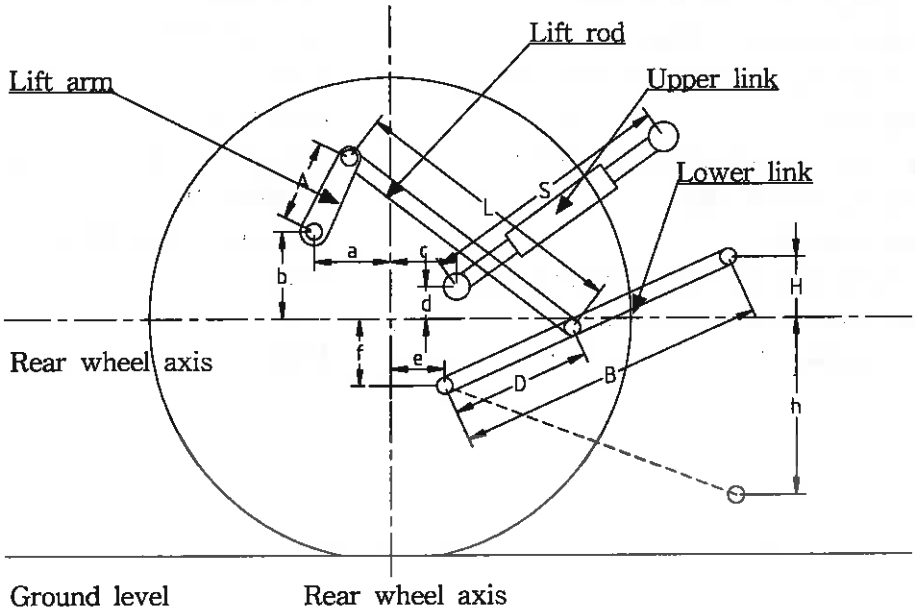


Figure 1.1

Lift test-Linkage geometry

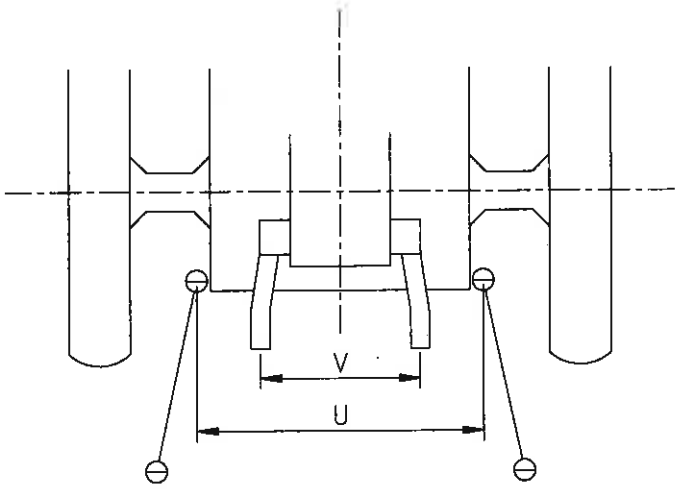


Figure 1.2

Lift test-Linkage geometry

		Dimension or range (mm)	Settings used in test (mm)
Length of lift arms :	(A)	243	243
Length of lower links :	(B)	735	735
Distance of lif arm pivot point from rear-wheel axis :			
- horizontally	(a)	204	204
- vertically	(b)	278	278
Horizontal distance between the 2 lower link points:	(u)	290	290
Horizontal distance between the 2 lift arm end points:	(v)	372	372
Length of upper link:	(S)	from 576 to 830	655
Distance of upper link pivot point from rear wheel axis:			
- horizontally	(c)	102	102
- vertically	(d)	from 123 to 213	213
Distance of lower link pivot point from rear wheel axis:			
- horizontally	(e)	70	70
- vertically	(f)	117	117
Distance of lower link pivot point to lift rod pivot points on lower links:	(D)	343	343
Length of lift rods:	(L)	from 426 to 510	460
Height of lower hitch points relative to the rear-wheel axis:			
- in low position	(h)	from 220 to 375	362
- in high position	(H)	from 125 to 325	148
Height above ground of lower hitch points when locked in transport position(*)		Any height within lifting range	
(*)Assuming r = 560mm 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 : Clevis
- Hole diameter : 29 mm
- Height above ground : 355 mm
- Distance of hitch point from rear-wheel axis, horizontally : 292 mm
- Distance of hitch point from power take-off shaft end
  - Vertically : 150 mm
  - Horizontally : 143 mm
- Maximum vertical permissible load : 6.5 kN

1.9 HOLED DRAWBAR : None

1.10 STEERING

- Make : Sumitomo Eaton
- Model : None
- Type : Hydrostatic
- Method of operation
  - · Pump(s) : Gear pump
  - · Ram(s) : 1, double acting ram actuated directly
- Working pressure : 11.8 MPa

1.11 BRAKES

1.11.1 Service brake

- Make : Jin-Myoung
- Model : None
- Type : Oil-immersed multiplate discs
- 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 pedals and ratched by hand lever

1.12 WHEELS

- Number
  - · Front : 2, steering and driving
  - · Rear : 2, driving
- Wheelbase : 1780 mm
- Track width adjustment :

	Minimum	Maximum	Adjustment method
	mm	mm	
Front	1120	1120	None
Rear	1120	1426	By reversing wheels and offset lug rims

1.13 PROTECTIVE STRUCTURE : Not fitted

1.14 SEAT

1.14.1 Driver's seat

- Make : Young-Jin
- Model : None
- Type : Upholstered seat with back rest
- Seat and steering wheel reversible : No
- Type of suspension : Spring
- Type of damping : None

- Range of adjustment
  - Longitudinally : 100 mm
  - Vertically : None
- 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
Headlights		1070	139×95	198
Sidelights	Front	1070	55×95	299
	Rear	1251	75×79	553
Rearlights		1251	115×79	461
Reflectors		1251	40×40	485

2. TEST CONDITIONS

2.1 OVERALL DIMENSIONS

	Length	Width		Height at top of exhaust silencer
		minimum	maximum	
	mm	mm	mm	mm
Ballasted	3510	1360	1740	2026
Unballasted	3310	1360	1740	2026

2.2 GROUND CLEARANCE(unballasted tractor) : 354 mm

- Clearance-limiting part : Drawbar frame

2.3 TRACTOR MASS

- Mass(without frame)

	Ballasted		Unballasted	
	Without driver	With driver	Without driver	With driver
	kg	kg	kg	kg
Front	808	815	736	743
Rear	813	881	763	831
Total	1621	1696	1499	1574

2.4 BALLAST

	Weights		Water
	Number	Total mass	
		kg	kg
Front	4	72	-
Rear	2	50	-
Optional	-	-	-

2.5 TRACK SPECIFICATIONS : None

2.6 TYRES AND TRACK WIDTH SPECIFICATIONS

	Front	Rear
Tyres :		
dimensions	8-16	13.6-24
ply rating	4	4
type	Diagonal	Diagonal
maximum load(tyre manufacturer's)	4.6 kN	13.1 kN
maximum load(tractor manufacturer's)	4.6 kN	13.1 kN
inflation pressure(tyre manufacturer's)	157 kPa	157 kPa
dynamic radius index	366 mm	560 mm
Chosen track width	1120 mm	1120 mm

2.7 FUEL

- Type : Diesel fuel No. 2 in conformity with Korean standard(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	6.0	75	200
Gear box, rear axle and final drives in common with hydraulic system	28	300	200
Steering system	2.0	300	-
Front axle and final drives	8.0	300	-

2.8.2 Specifications

	Recommended	Used during test
Engine oil · Type : · Viscosity : · Classification :	 SAE 10W-30 105-110 cSt at 40℃ API CD-4	 Same
Transmission oils, Hydraulic fluid Steering oil · Type : · Viscosity : · Classification :	 Gear oil, Daedong TF65 60-68 cSt at 40℃ API GL-4	 Same

2.8.3 Grease :

- Number of lubrication points : 5

3. COMPULSORY TESTS RESULTS

3.1 MAIN POWER TAKE-OFF

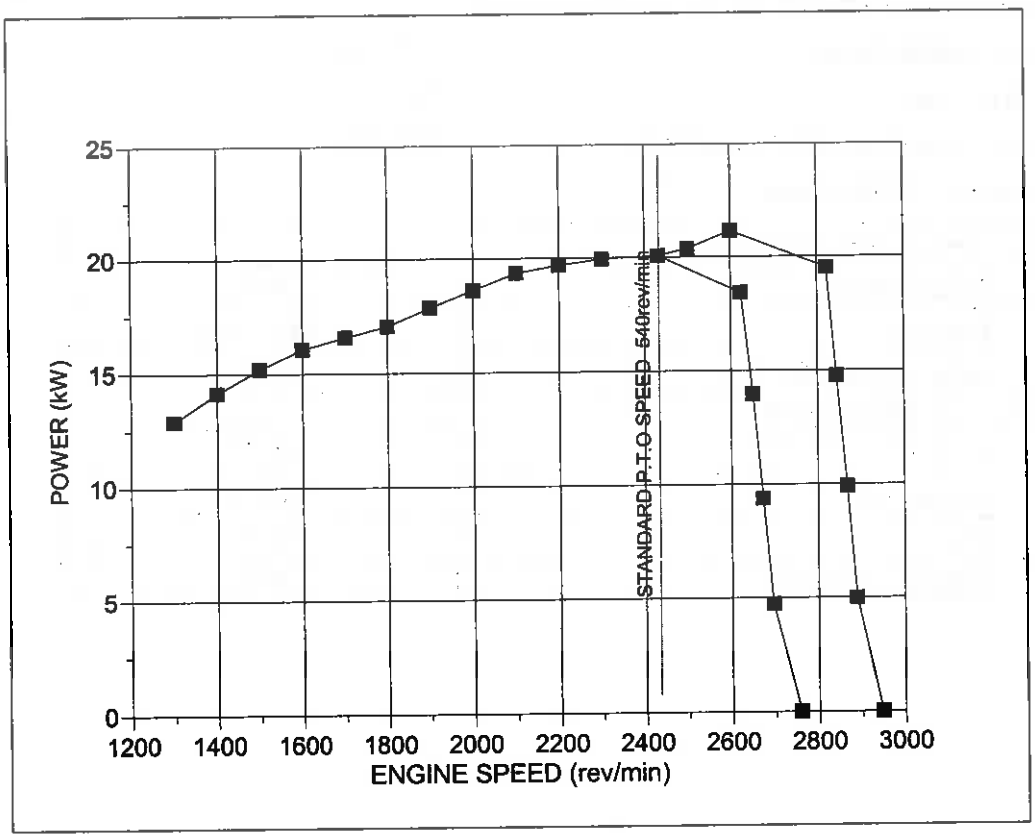
- Date and location of tests : 24th to 25th May 2000, NAMRI, Konjiam
- Type of dynamometer bench : Eddy Current, FROUD AG 250

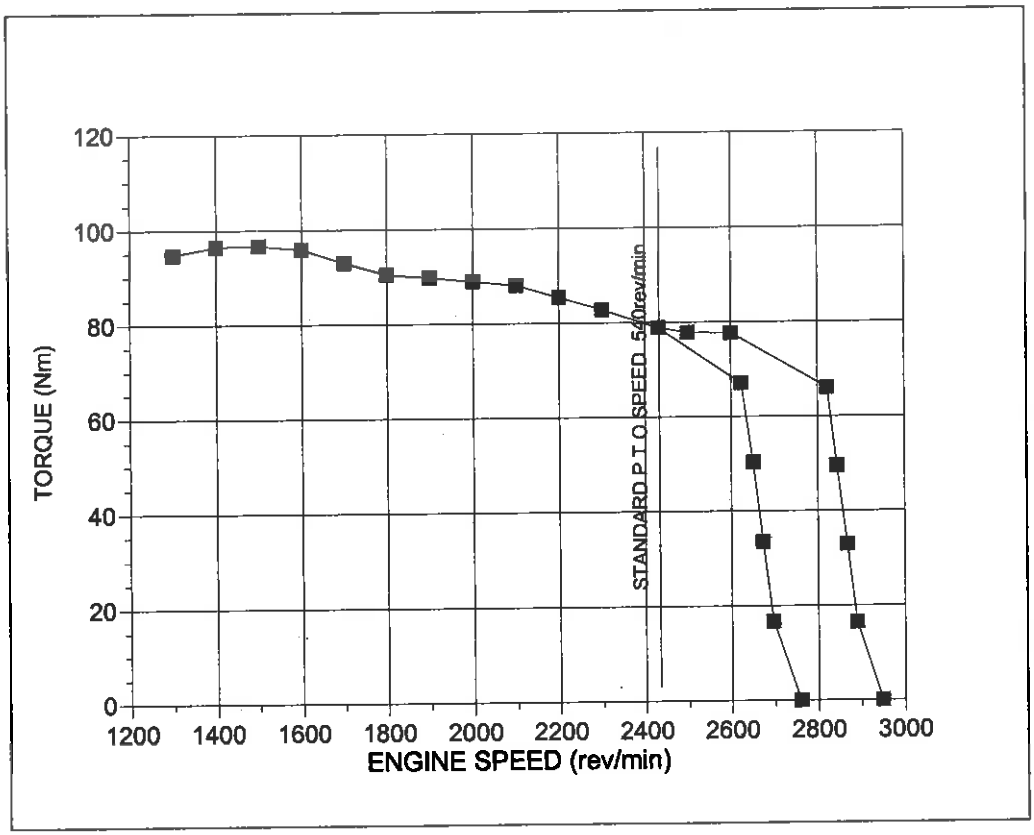
Power	Speed		Fuel consumption			Specific energy
	Engine	P.T.O	Hourly		Specific	
kW	rev/min	rev/min	kg/h	ℓ/h	g/kWh	kWh/ℓ
3.1.1 MAXIMUM POWER - TWO-HOURS TEST						
21.15	2600	578	6.37	7.74	301	2.734
3.1.2 POWER AT RATED ENGINE SPEED						
21.15	2600	578	6.37	7.74	301	2.734
3.1.3 STANDARD POWER TAKE-OFF SPEED (540±10 rev/min)						
20.07	2431	540	5.96	7.23	297	2.777
3.1.4 PART LOADS						
3.1.4.1 The torque corresponding to maximum power at rated engine speed						
21.15	2600	578	6.37	7.74	301	2.734
3.1.4.2 85% of torque obtained in 3.1.4.1						
19.51	2822	627	6.21	7.53	318	2.591
3.1.4.3 75% of torque defined in 3.1.4.2						
14.75	2844	632	5.10	6.19	346	2.385
3.1.4.4 50% of torque defined in 3.1.4.2						
9.91	2867	637	4.10	4.97	413	1.993
3.1.4.5 25% of torque defined in 3.1.4.2						
4.99	2889	642	3.15	3.82	630	1.307
3.1.4.6 Unloaded						
0	2948	655	2.34	2.84	-	-
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						
20.07	2431	540	5.96	7.23	297	2.777
3.1.5.2 85% of torque obtained in 3.1.5.1						
18.42	2624	583	5.66	6.87	307	2.681
3.1.5.3 75% of torque defined in 3.1.5.2						
13.96	2651	589	4.69	5.70	336	2.451
3.1.5.4 50% of torque defined in 3.1.5.2						
9.38	2673	594	3.79	4.60	404	2.039
3.1.5.5 25% of torque defined in 3.1.5.2						
4.73	2696	599	2.91	3.53	615	1.341
3.1.5.6 Unloaded						
-	2759	613	2.10	2.55	-	-

- No load maximum engine speed : 2948 rev/min
- Torque (equivalent crankshaft) at maximum power
  - At rated engine speed : 77.7 Nm
  - At 2 hours test : 77.7 Nm
- Maximum torque(equivalent crankshaft) : 96.8 Nm
  (engine speed : 1500rev/min)

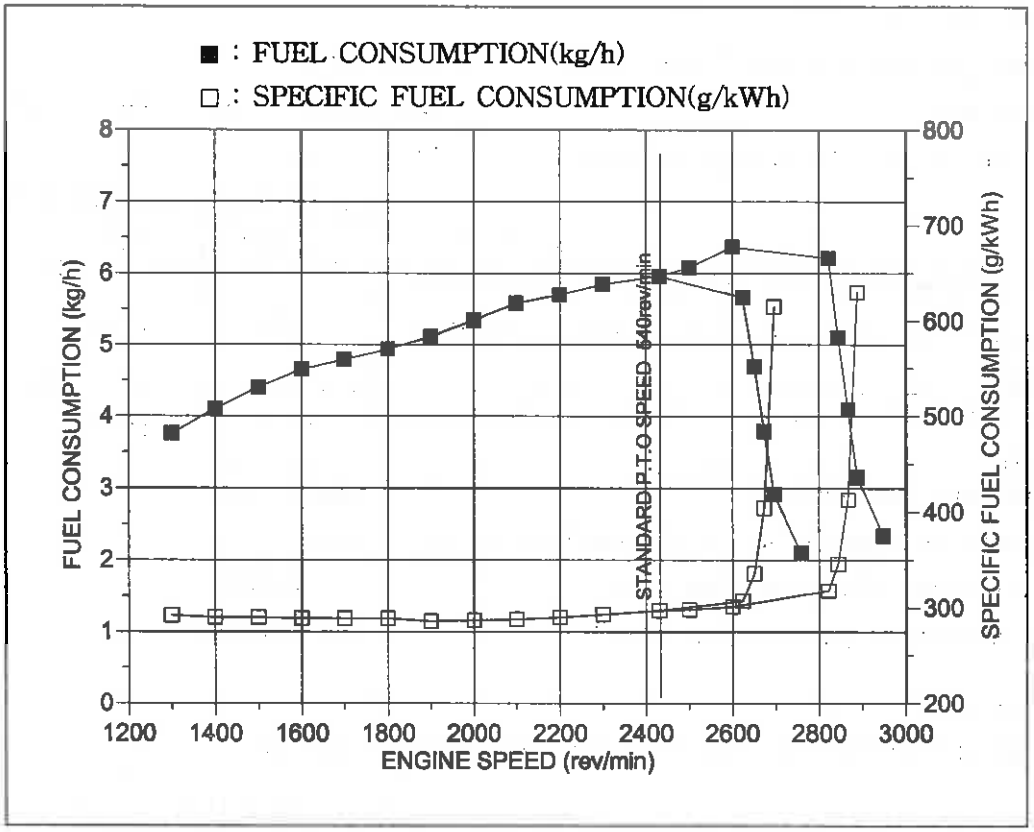
Mean atmospheric conditions	
Temperature	28 ℃
Pressure	100.1 kPa
Relative humidity	44 %
Maximum temperatures	
Coolant	92 ℃
Engine oil	104 ℃
Fuel	35 ℃
Engine air intake	30 ℃

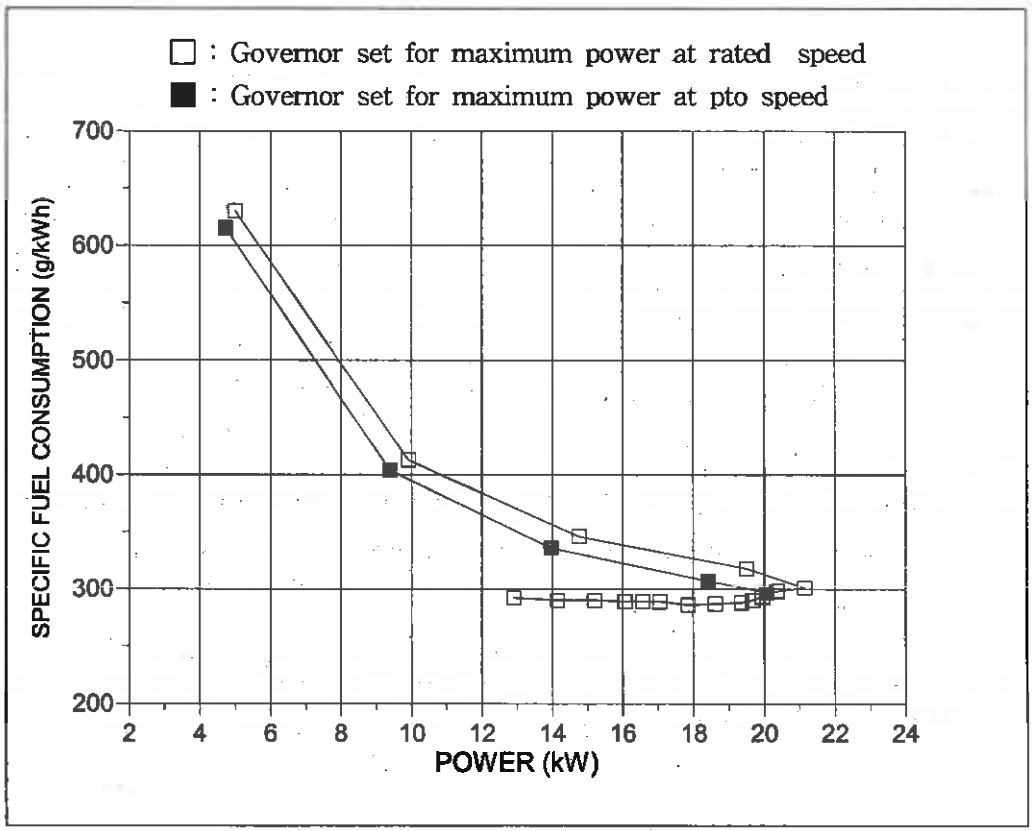
POWER TAKE - OFF PERFORMANCE CURVES





POWER TAKE - OFF PERFORMANCE CURVES





3.2 HYDRAULIC POWER AND LIFTING FORCE

- Date of tests : 28th to 31th March, 2000

3.2.1 Hydraulic power test

- Sustained pressure with relief valve open : 15.05 MPa
- Pump stalled : Not applicable, open center system
- Pump delivery rate at minimum pressure : 31.94 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	8.31	13.55	1.88
Flow rate and hydraulic pressure corresponding to maximum hydraulic power	30.49	11.61	5.90

- 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 - see 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 with lifting forces	 510 mm 482 mm	 644 mm 620 mm
Maximum corrected force exerted through full range	10.41 kN	7.92 kN
Corresponding pressure of hydraulic fluid	13.55 MPa	13.55 MPa
Moment about rear-wheel axis	8.38 kNm	11.21 kNm
Maximum tilt angle of mast from vertical	-	7 °

Lifting heights relative to the horizontal plane including the lower link pivot point											
mm	-306	-300	-245	-200	-100	0	100	200	237	300	314
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 point, corrected to 13.55 MPa											
kN	-	-	10.41	10.59	10.94	11.19	11.39	11.57	11.43	-	-
At the frame, corrected to 13.55 MPa											
kN	8.12	8.14	-	8.33	8.43	8.51	8.49	8.47	-	8.25	7.92

3.3 DRAWBAR POWER TEST(ballasted and unballasted tractor)

- Date of tests : 1th to 9th June, 2000
- Type of track : Asphalt

	Height of drawbar above ground	Tyre inflation pressure	
		Front	Rear
	mm	kPa	kPa
Unballasted	410	157	157
Ballasted	410	157	157

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-1	4.84	10.34	1.68	2914	15.1	638	1.292	38	88	103	24	58	100.5
L-2	5.86	10.05	2.10	2873	15.1	608	1.356	39	88	104	25	57	100.6
L-3	7.97	9.98	2.87	2856	15.1	524	1.572	41	89	105	26	56	100.6
L-4	11.86	9.83	4.35	2817	15.1	521	1.581	43	89	106	27	56	100.5
H-1	17.14	9.77	6.32	2788	15.0	363	2.271	42	89	107	27	55	100.6
H-2	17.15	7.87	7.84	2602	8.7	372	2.216	41	88	105	26	56	100.5
H-3	17.00	5.40	11.32	2600	5.5	376	2.193	40	87	103	25	57	100.5
3.3.2 MAXIMUM POWER IN TESTED GEARS (ballasted tractor)													
L-1	5.17	11.21	1.66	2892	15.1	611	1.348	42	88	104	28	53	100.5
L-2	6.46	11.05	2.11	2887	15.1	493	1.671	42	88	104	28	53	100.5
L-3	8.79	10.96	2.89	2872	15.1	404	2.042	41	89	105	29	52	100.5
L-4	13.20	10.78	4.41	2846	15.0	388	2.126	42	89	106	29	52	100.6
H-1	16.67	10.04	5.98	2601	13.2	382	2.159	41	90	106	28	53	100.6
H-2	17.19	7.84	7.90	2600	8.1	370	2.226	41	90	105	28	53	100.5
H-3	16.89	5.36	11.34	2598	6.5	378	2.183	40	89	104	29	53	100.5
3.3.3 FIVE-HOUR TEST													
3.3.3.1 FIVE-HOUR TEST at 75% of pull at maximum power at rated engine speed													
H-1	14.33	7.52	6.86	2844	8.5	357	2.309	42	90	105	29	53	100.5
3.3.3.2 FIVE-HOUR TEST at pull corresponding to 15% wheelslip with additional ballast(†) : - kg													
L-4	13.13	10.77	4.39	2849	15.0	387	2.130	43	89	104	28	52	100.5

(†) Test 3.3.3.2 was carried out without additional ballast.

Oil consumption during ten hours duration of tests 3.3.3.1 and 3.3.3.2 : 8.9 g/h

3.4 TURNING AREA AND TURNING CIRCLE

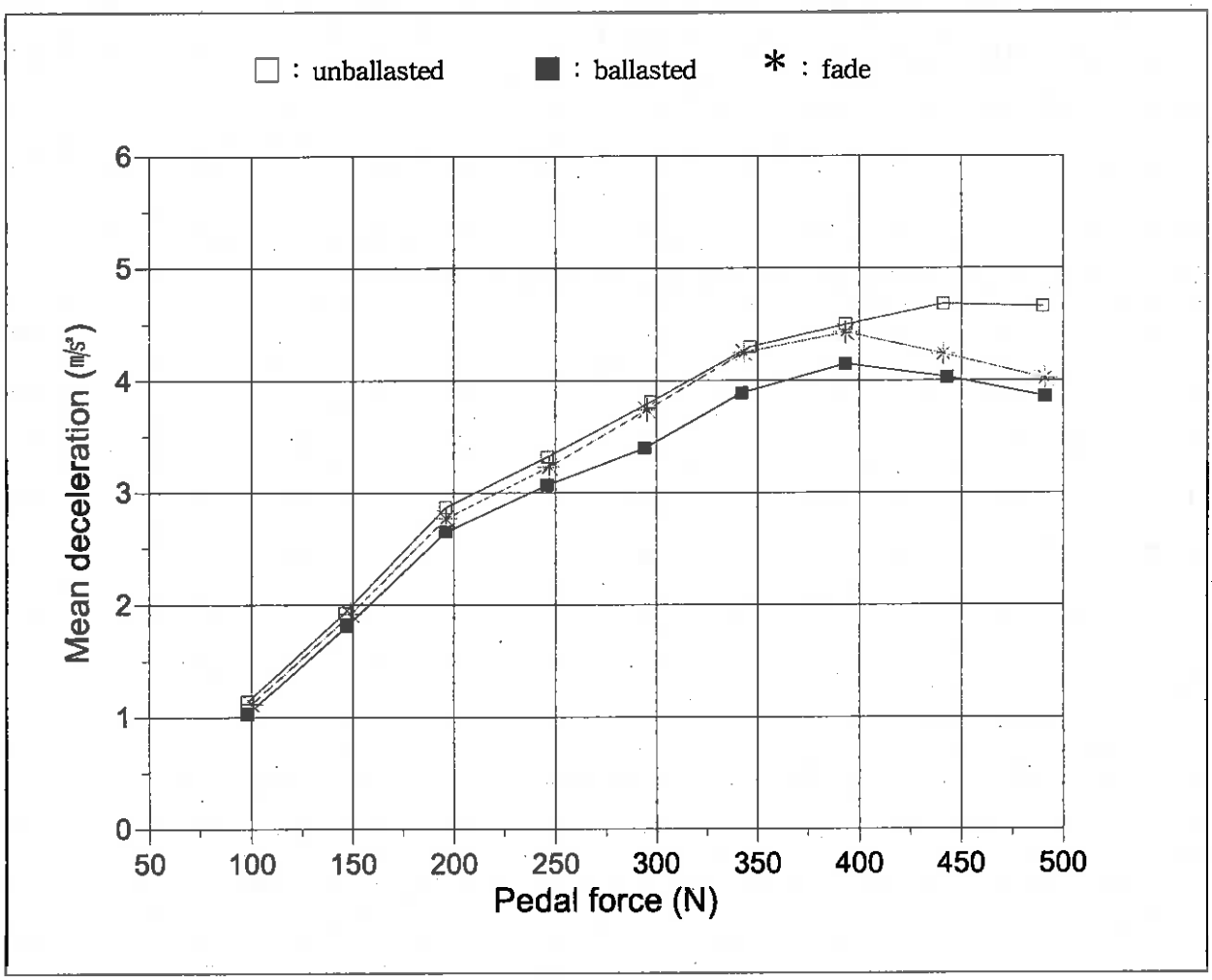
	With brakes		Without brakes	
	Right-hand	Left-hand	Right-hand	Left-hand
	mm	mm	mm	mm
Radius of turning area	2880	2940	4165	4225
Radius of turning circle	2785	2845	4070	4130

3.5 LOCATION OF CENTER OF GRAVITY

- Height above ground : 845 mm
- Distance from the vertical plane containing the axis of the rear-wheels : 840 mm
- Distance from the median longitudinal plane of the tractor, to the right : 4 mm
- If the angle of suspension of the tractor is less than 20 ° indicate its value : None

3.6 BRAKING

- Date of tests : 12th to 13th June, 2000



3.6.1 Cold service braking device test

	Speed before application of brakes	Braking device control force	Mean deceleration
	km/h	kN	m/s²
Ballasted tractor	20.69	0.098	1.03
		0.147	1.81
		0.196	2.65
		0.246	3.07
		0.294	3.40
		0.342	3.89
		0.393	4.15
		0.443	4.03
		0.491	3.86
Unballasted tractor	20.60	0.098	1.14
		0.146	1.93
		0.196	2.87
		0.246	3.32
		0.297	3.81
		0.346	4.30
		0.393	4.50
		0.441	4.68
		0.490	4.66

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

3.6.2 Fade Test

- Maximum deviation of tractor from its original course : None
- Abnormal vibration : None
- Brake heating method : Driven with brakes applied for 1km at 80%(16.61 km/h) of maximum speed with a pedal force corresponding to a decelera -tion of 1m/s².

Speed before application of brakes	Braking device control force	Mean deceleration
km/h	kN	m/s²
20.76	0.100	1.12
	0.149	1.92
	0.196	2.77
	0.247	3.23
	0.295	3.74
	0.343	4.25
	0.393	4.43
	0.441	4.24
	0.491	4.02

3.6.3 Parking braking device test

	Uphill	Downhill
Braking device control force	333 N	333 N

3.7 MEASUREMENT OF EXTERNAL NOISE

- Date of tests : 16th May, 2000
- Sound level meter, make/model/type : Bruel and kjaer, 2236
- Type of track : Asphalt
- Gear number : 8 (H-4) gear
- Travelling speed before acceleration : 15.2 ㎞/h
- Sound level : 79.1 dB(A)

4. REPAIRS

None

5. REMARKS

None