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

O. E. C. D. Approval No. **1141**

Restricted Code



FORD 1720-12x12 Synchro(4WD)

Manufacturer

ISHIKAWAJIMA SHIBAURA MACHINERY Co., Ltd.

Ishishiba 1-1-1 Matsumoto City, Nagano, Japan

Bio-oriented Technology Research Advancement Institution
(B R A I N)

1-40-2 Nisshin Omiya Saitama 331 JAPAN

This bulletin is based on engineering tests in accordance with the O.E.C.D. STANDARD CODE for the Official Testing of Agricultural Tractor Performance. It does not contain the evaluation of the tractor performance on practical work.
This report has been approved by the O.E.C.D. Coordinating Center (C.E.M.A.G.R.E.F., France) as being in accordance with the O.E.C.D. STANDARD CODE.

Test No.:	87004 /O.E.C.D.
Date of Test:	December, 1987
Date of Approval:	12th Apr., 1988

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/cm^2	= 98.0665	kPa

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Tractor manufacturer's name and address:	ISHIKAWAJIMA SHIBAURA MACHINERY Co., Ltd. Ishishiba 1-1-1 Matsumoto City, Nagano, Japan
Location of tractor assembly:	Ishishiba 1-1-1 Matsumoto City, Nagano, Japan
Submitted for test by:	FORD NEW HOLLAND, Inc. PA 17557, U.S.A.
Selected for test by:	The manufacturer with agreement by BRAIN
Place of running-in:	ISHIKAWAJIMA SHIBAURA MACHINERY Co., Ltd. Matsumoto Plant
Duration of running-in:	Engine and tractor 92.5 h
Location of test:	BRAIN

I. SPECIFICATIONS OF TRACTOR

TRACTOR

Make:	ISHIKAWAJIMA SHIBAURA
Model:	FORD 1720-12x12 Synchro
Type:	Wheel tractor, unit construction, four wheel driven
Number of driving wheels:	4
Serial No.:	UL 21782
1st Serial No.:	UL 21001

ENGINE

Make:	ISHIKAWAJIMA SHIBAURA
Model:	N843
Type:	Water-cooled 4-stroke diesel-engine, in-direct injection
Serial No.:	N843-04307

Cylinders

Number/Disposition:	3, vertical in line
Bore/stroke:	84/90 mm
Capacity:	1496 cm^3
Compression ratio:	22 : 1
Arrangement of valves:	Overhead
Cylinder liners (wet or dry):	Unreplaceable integral, dry

Fuel system

Fuel feed system:	Gravity feed
Filters	
Make:	TAIYO GIKEN
Model:	IK 12-100
Type:	Replaceable paper element with sediment bowl
Capacity of fuel tank:	32 l
Injection pump	
Make:	DIESEL KIKI
Model:	NP-PFR 3KD55/2NP18
Type:	In-line
Serial No.:	7420005

Manufacturer's production setting of injection pump	
Flow rate	
(rated engine speed):	6.1±0.2 l/h
(full load):	6.1±0.2 l/h
Timing:	22.5° before TDC
Injectors	
Make:	DIESEL KIKI
Model:	105148-1170
Type:	Throttle type
Injection pressure:	15±0.5 MPa

Governor

Make:	ISHIKAWAJIMA SHIBAURA
Model:	125206250
Type:	All speed mechanical governor
Governed range of engine speed:	From 800 to 2700 rev/min
Rated engine speed:	2500 rev/min

Air cleaner

Make:	NIPPON DENSO
Model:	114100-2430
Type:	Dry, paper element, cyclone type
Location of air intake:	Above the engine under the hood
Maintenance indicator:	Clogged indicator warning light

Lubrication system

Type of feed pump:	Forced feed with trochoid pump
Type of filter(s):	Full flow with by-pass valve and replaceable cartridge
Number:	1

Cooling system

Type of coolant:	50/50 solution of permanent antifreeze and clear water
Type of pump:	Centrifugal
Make of pump:	AISHIN SEIKI
Model of pump:	16100-6920
Specification of fan:	Axial
Number of fan blades:	5
Fan diameter:	340 mm
Coolant capacity:	5.6 l
Type of temperature control:	Thermostat
Superpressure system:	90 kPa

Starting system

Make:	MITSUBISHI
Model:	M002T54085
Type:	Solenoid, pre-engaged, reduction
Starter motor power rating:	12 V, 2.0 kW
Cold starting aid:	Electrical glow plug
Safety device:	Operable only with shuttle lever and P.T.O. control lever in neutral position

Electrical system	
Voltage:	12 V
Generator:	Alternator
Make:	MITSUBISHI
Model:	A1T 25087
Type:	Three phase alternator
Power:	35 A, 0.42 kW
Battery(Number of accumulators):	1
Rating:	70 Ah at 20 hours
Exhaust system	
Make:	ISHIKAWAJIMA SHIBAURA
Model:	314011510
Type:	Multi-chamber absorption-expansion type
Location:	Vertical on the left side of tractor

TRANSMISSION TO WHEELS

Clutch(travel and power take-off)	
Make:	DAIKIN
Model:	0015225151
Type:	Double acting; Dry dual disk
Number of plates:	2
Diameter of plates:	225 mm
Method of operation:	Pedal operated
Gear box	
Make:	ISHIKAWAJIMA SHIBAURA
Type:	Mechanical
Arrangement:	Shuttle gear for forward-reverse and 4 speed gears with synchromesh, 3 range gears (L,M, and H) with sliding mesh
Number of gears:	12 forward and 12 reverse gears
Rear axle and final drives	
Make:	ISHIKAWAJIMA SHIBAURA
Type:	Bevel gear type differential; spur gear final drives
Differential lock	
Type:	Differential lock in rear axle (Mechanical)
Method of engagement:	Pedal operated
Method of disengagement:	Self disengaged
Front axle and final drives	
Make:	ISHIKAWAJIMA SHIBAURA
Type:	Bevel gear type differential and final drives
Differential lock	None

Total ratios and traveling speeds

Gear No.	Group	Number of engine revolutions for one revolution of the driving wheels	Nominal traveling speed at rated engine speed of 2500 rev/min km/h (*)
Forward F			
1st	L-1	371.450	1.34
2nd	L-2	291.472	1.71
3rd	L-3	233.307	2.13
4th	L-4	176.633	2.82
5th	M-1	136.850	3.64
6th	M-2	107.385	4.63
7th	M-3	85.955	5.79
8th	M-4	65.075	7.65
9th	H-1	52.635	9.45
10th	H-2	41.302	12.05
11th	H-3	33.060	15.05
12th	H-4	25.029	19.88
Reverse R			
1st	L-1	331.392	1.50
2nd	L-2	260.039	1.91
3rd	L-3	208.147	2.39
4th	L-4	157.585	3.17
5th	M-1	122.092	4.08
6th	M-2	95.804	5.19
7th	M-3	76.686	6.49
8th	M-4	58.057	8.57
9th	H-1	46.958	10.60
10th	H-2	36.848	13.50
11th	H-3	29.494	16.87
12th	H-4	22.330	22.28

(*)Calculated with a tyre dynamic radius index of 528 mm

Number of revolutions of front wheels
for one revolution of rear wheels : 1.62

POWER TAKE-OFF

Main power take-off

Type:	Semi-independent P.T.O.
Method of engagement:	Operated by clutch pedal
Number of shafts:	1
Method of changing power take-off shafts ends and speeds:	None

Power take-off proportional to engine speed

540 rev/min

Location:	At rear of tractor in tractor's median plane
Diameter of power take-off shaft end:	35 mm
Number of splines:	6, in conformity with ISO 500/1979, except that length of effective portion of splines is by 10 mm shorter than ISO standard
Height above ground:	522 mm
Distance from the median plane of the tractor:	0 mm
Distance behind rear wheel axle:	266.5 mm
P.T.O. speed at rated engine speed:	603 rev/min
Engine speed at standard power take-off speed:	2237 rev/min
Ratio of rotation speeds (engine speed/p.t.o. speed):	4.143
Power restriction and maximum torque:	28.0 kW, 530 N·m
Direction of rotation (viewed facing driving end):	Clockwise

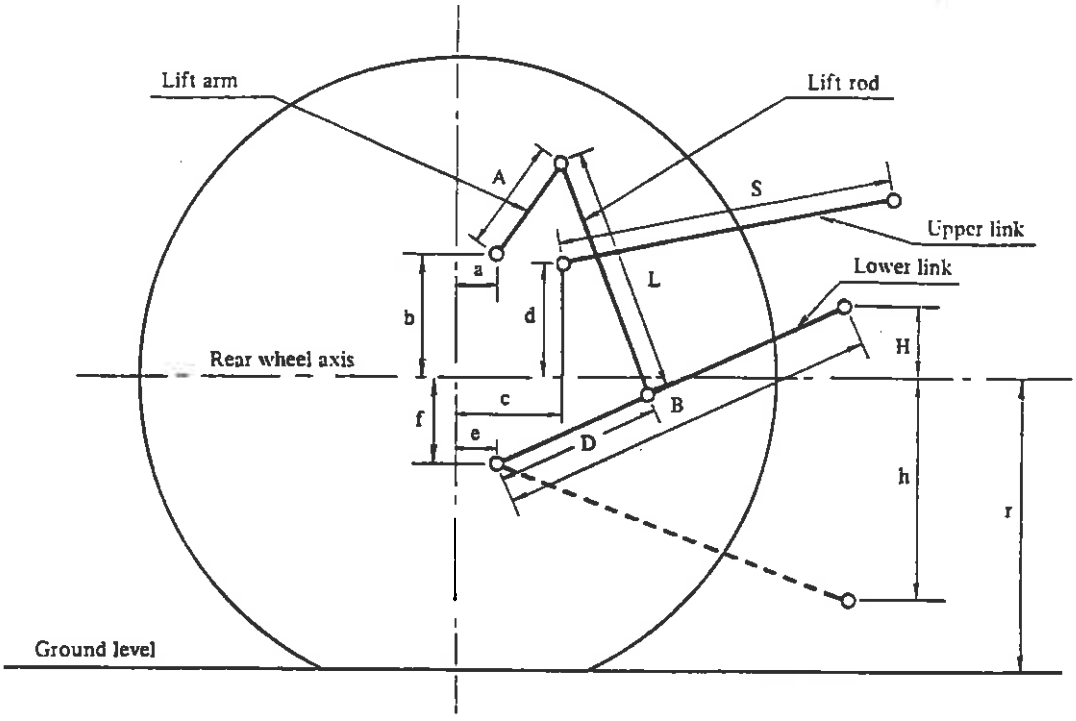
POWER LIFT

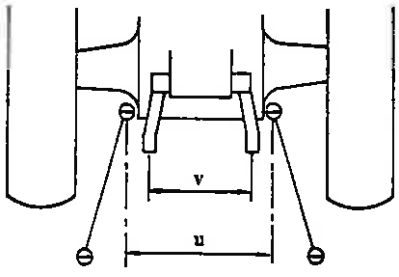
Make:	ISHIKAWAJIMA SHIBAURA
Type:	Hydraulically power lift in unit construction
Type of hydraulic system:	Open center, position control, floating position and flow control valve (two lever lift system with draft and position control: optional)
Type and number of cylinders:	Single acting, 1
Type of linkage lock for transport:	Hydraulically closed by flow control valve
Relief valve pressure setting:	14.7+0.6 MPa
Opening pressure of cylinder safety valve:	24.5+0.5 MPa
Lift pump type:	Gear pump
Transmission between pump and engine:	Directly driven by engine
Type and number of filters:	Replaceable cartridge, 1
Site of oil reservoir:	In rear transmission case

Type, number and location of tapping points:	NPTF 3/8 tapping, 1, At right side of clutch housing
Maximum volume of oil available to external cylinders:	27 l

Three-point linkage

Category:	In conformity with categories 1 in ISO 730/3-1982





Lift test – Linkage geometry

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

		Dimension or range mm	Settings used in test mm
Length of lift arms		(A) 280	
Length of lower links		(B) 803	
Distance of lift arm pivot point from rear wheel axis	horizontally	(a) 39	
	vertically	(b) 293	
Horizontal distance between the 2 lower link points		(u) 452	
Horizontal distance between the 2 lift arm end points		(v) 524	
Length of upper link		(S)from 440 to 700	700
Distance of upper link pivot point from rear wheel axis	horizontally	(c) 248.5	
	vertically	(d) 230, 260	260
Distance of lower link pivot point from rear wheel axis	horizontally	(e) 30	
	vertically	(f) 115	
Distance of lower link pivot points to lift rod pivot points on lower links		(D) 375	
Length of lift rods		(L)from 400 to 475	400
Height of lower hitch points relative to the rear wheel axis			
in low position		(h)from 148 to 522	340
in high position		(H)from 198 to 345	345
Height above ground of lower hitch points when locked transport position(*)		from -7 to 860	from 175 to 860

(*) Assuming r = dynamic radius index (ISO 4251/1-1984). 515 mm

SWINGING DRAWBAR Optional, not fitted on tested tractor.

TRAILER HITCH

Type: Extension type

Hole diameter:	26 mm
Height above ground:	348 mm
Distance of hitch point from rear wheel axis, horizontally:	From 442 to 622 mm
Distance of hitch point from power take-off shaft end	
Vertically:	179 mm
Horizontally:	From 176 to 356 mm
Maximum vertical permissible load:	4.9 kN

HOLED DRAWBAR

Number of holes:	7
Distance between holes:	80 mm
Hole diameter:	22 mm
Thickness/width of the drawbar:	25/75 mm
Height above ground	
Minimum:	0 mm
Maximum:	860 mm
Horizontal distance to power take-off shaft end (rear):	564 mm

STEERING

Make:	SUMITOMO EATON
Model:	UBS 100B16A2A
Type:	Hydraulic steering
Method of operation:	Steering wheel operated hydraulically
Pump:	Gear type
Ram:	One double acting cylinder
Working pressure:	9.8 MPa

BRAKES

Service brake

Make:	ISHIKAWAJIMA SHIBAURA
Type:	Wet disc, internal sliding mechanically
Method of operation:	Pedal operated, divided pedal of service brake, for normal use locked together
Trailer braking take-off:	None

Parking brake

Type:	In common with service brake
Method of operation:	Depressed by brake pedals and latched by hand lever

WHEELS

Number	
Front:	2, driving/steering
Rear:	2, driving
Wheelbase:	1650 mm

Track width adjustment

	Minimum mm	Maximum mm	Adjustment method
Front	1170	—	Not available
Rear	1100	1490	Interchanging right and left wheels, and/or resetting rim and disc

PROTECTIVE STRUCTURE

Make:	ISHIKAWAJIMA SHIBAURA
Model:	FORD 19SA 9072
Type:	2-post frame of steel tube
Manufacturer's name and address:	ISHIKAWAJIMA SHIBAURA MACHINERY Co., Ltd. Ishishiba 1-1-1 Matsumoto City, Nagano, Japan
Protective device:	Frame, not tiltable
O.E.C.D. approval number:	None

DRIVER'S SEAT

Make:	BOSTROM
Type of suspension:	Coil spring
Type of damping:	Rubber
Range of adjustment	
Longitudinal:	120 mm
Vertical:	30 mm

LIGHTING

	Height above ground of center mm	Size mm	Distance from outside edge of tractor to median plane mm
Headlights	1090	108x65	613
Flashers	1413	ø119	165
Rearlights	1273	56.5x56.5	250
Reflectors	1167	64.5x45	253

TEST CONDITIONS

Overall dimensions

Length:	3079 mm
Width	
Minimum:	1390 mm
Maximum:	1778 mm
Height	
Top of protective structure:	2150 mm
Top of exhaust:	2028 mm

Ground clearance (unballasted tractor): 290 mm

Clearance-limiting part: Front differential case

Tractor mass (with frame)

		Without driver kg	With driver kg
Unballasted	Front	590	604
	Rear	717	778
	Total	1307	1382
Ballasted	Front	711	722
	Rear	1178	1242
	Total	1889	1964

Ballast

	Number of weights	Mass (total) kg	Water kg
Front	–	–	–
Rear	10	300	192
Additional	3	90	–

Tyres and track width specifications

	Front wheels	Rear wheels	
Tyres:			
Dimensions	7-14	11.2-24	
Ply rating	4	4	
Type	Cross-ply	Cross-ply	
Maximum load (tyre manufacturer's):	3.63	8.29	(kN)
Inflation pressure (tyre manufacture's):	180	120	(kPa)
Dynamic radius index:	322	515	(mm)
Chosen track width:	1170	1215	(mm)

Oils and lubrication

Capacity and change interval

	Capacity l	Oil change h	Filter change h
Engine	4.5	100	200
Gear box	27	300	300
Front axle	5.0	300	—
Rear axle	In common with gear box		
Final drive (front)	In common with front axle		
Final drive (rear)	In common with gear box		
Hydraulic system	In common with gear box		
Other(steering, etc.)	1.8	600	—

Specifications (SAE, API)

	Recommended	Used during test
Engine oil		SAE 10W/30
Type:	Below 0°C SAE 10W or SAE 10W/30 From 0°C to 25°C SAE 20 or SAE 10W/30 Over 25°C SAE 30 or SAE 10W/30	
Viscosity:	68.2 cSt at 40°C 11.4 cSt at 100°C	
Classification:	API CC or CD	
Transmission oils		As recommended
Type:	SAE 80	
Viscosity:	72.27 cSt at 40°C 9.30 cSt at 100°C	
Classification:	API GL-4	
Hydraulic fluid	In common with transmission oils	As recommended
Steering oil		As recommended
Type:	SAE 32	
Viscosity:	32.0 cSt at 40°C 5.5 cSt at 100°C	
Classification:	API GL-3	
Grease		
Number of lubrication points:		10

Fuel

Type:	Diesel fuel, No.2 in conformity with JIS (Japanese Industrial Standard)
Density at 15°C:	0.835g/cm^3

TEST RESULTS

(1) MAIN POWER TAKE-OFF

Date and location of tests: 8th Dec., 1987, BRAIN, Omiya
Type of dynamometer: DC electrical, MEIDENSHA EB-DH1

Power	Speed		Fuel consumption			Specific energy
	Engine	P.T.O.	Hourly		Specific	
kW	rev/min	rev/min	kg/h	l/h	g/kW·h	kW·h/l
1.1 Maximum power - 2-hour test						
18.60	2500	604	5.10	6.12	274	3.04
1.2 Power at rated engine speed						
18.60	2500	604	5.10	6.12	274	3.04
1.3 Standard power take-off speed(540 rev/min)						
17.59	2237	540	4.67	5.61	265	3.14
1.4 Part loads						
1.4.1 The torque corresponding to maximum power at rated engine speed						
18.60	2500	604	5.10	6.12	274	3.04
1.4.2 85 % of torque obtained in 1.4.1						
16.26	2594	626	4.61	5.54	283	2.94
1.4.3 75 % of torque defined in 1.4.2						
12.27	2612	630	3.77	4.53	307	2.71
1.4.4 50 % of torque defined in 1.4.2						
8.23	2627	634	3.02	3.63	367	2.27
1.4.5 25 % of torque defined in 1.4.2						
4.14	2646	638	2.33	2.80	562	1.48
1.4.6 Unloaded						
0.0	2662	643	1.70	2.04	—	0.0

1.5 Part loads at standard power take-off speed (540 rev/min)

Power	Speed		Fuel consumption			Specific energy
	Engine	P.T.O.	Hourly		Specific	
kW	rev/min	rev/min	kg/h	l/h	g/kW·h	kW·h/l
1.5.1 The torque corresponding to maximum power						
17.60	2237	540	4.67	5.61	265	3.14
1.5.2 85 % of torque obtained in 1.5.1						
15.25	2286	552	4.13	4.97	271	3.07
1.5.3 75 % of torque defined in 1.5.2						
11.60	2315	559	3.36	4.04	290	2.87
1.5.4 50 % of torque defined in 1.5.2						
7.82	2336	564	2.65	3.19	339	2.45
1.5.5 25 % of torque defined in 1.5.2						
3.97	2353	568	2.03	2.44	512	1.63
1.5.6 Unloaded						
0.0	2378	574	1.39	1.67	–	0.0

No load maximum engine speed: 2662 rev/min

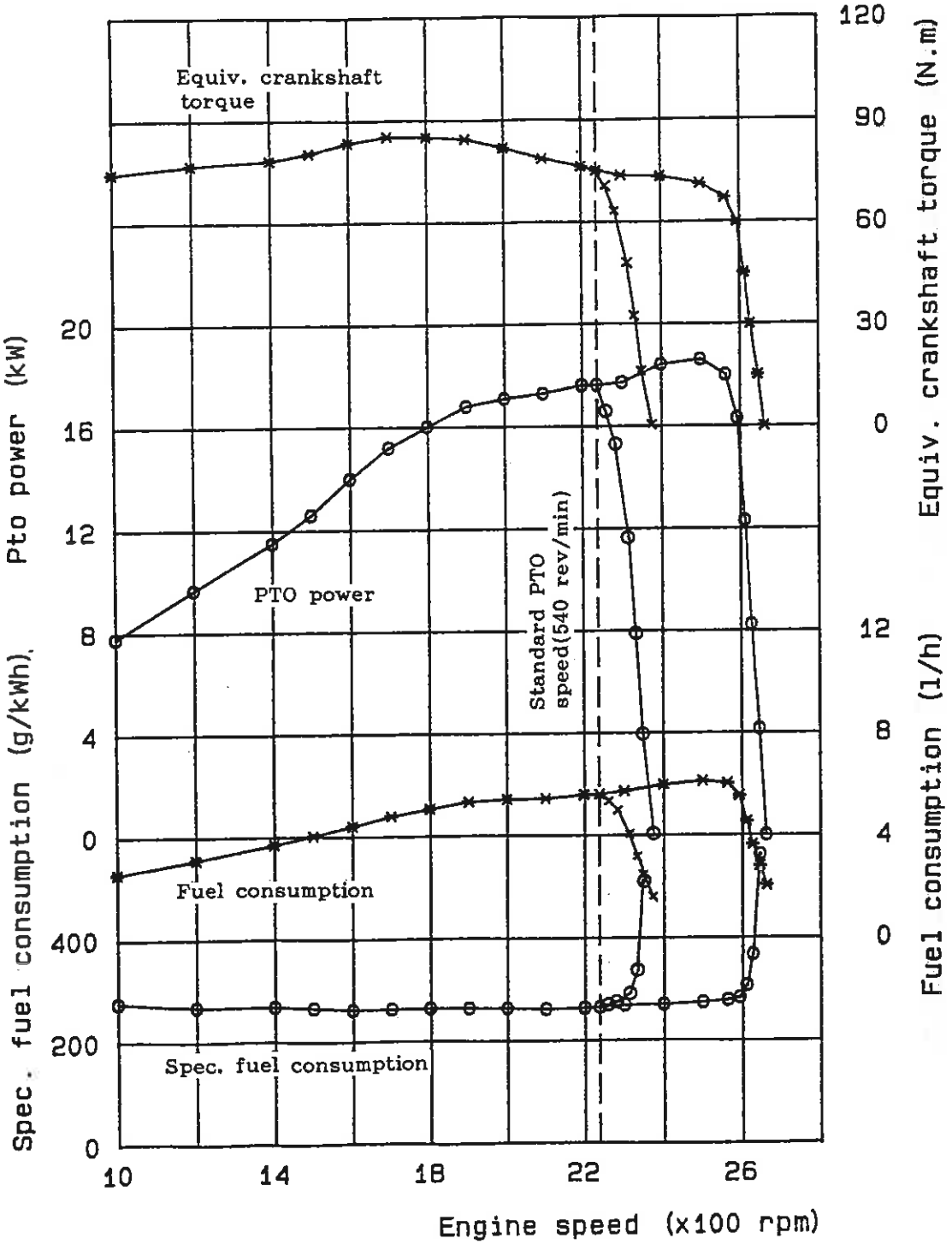
Torque (equivalent crankshaft) at maximum power: 71.0 N·m

Maximum torque (equivalent crankshaft): 85.2 N·m
(engine speed: 1700 rev/min)

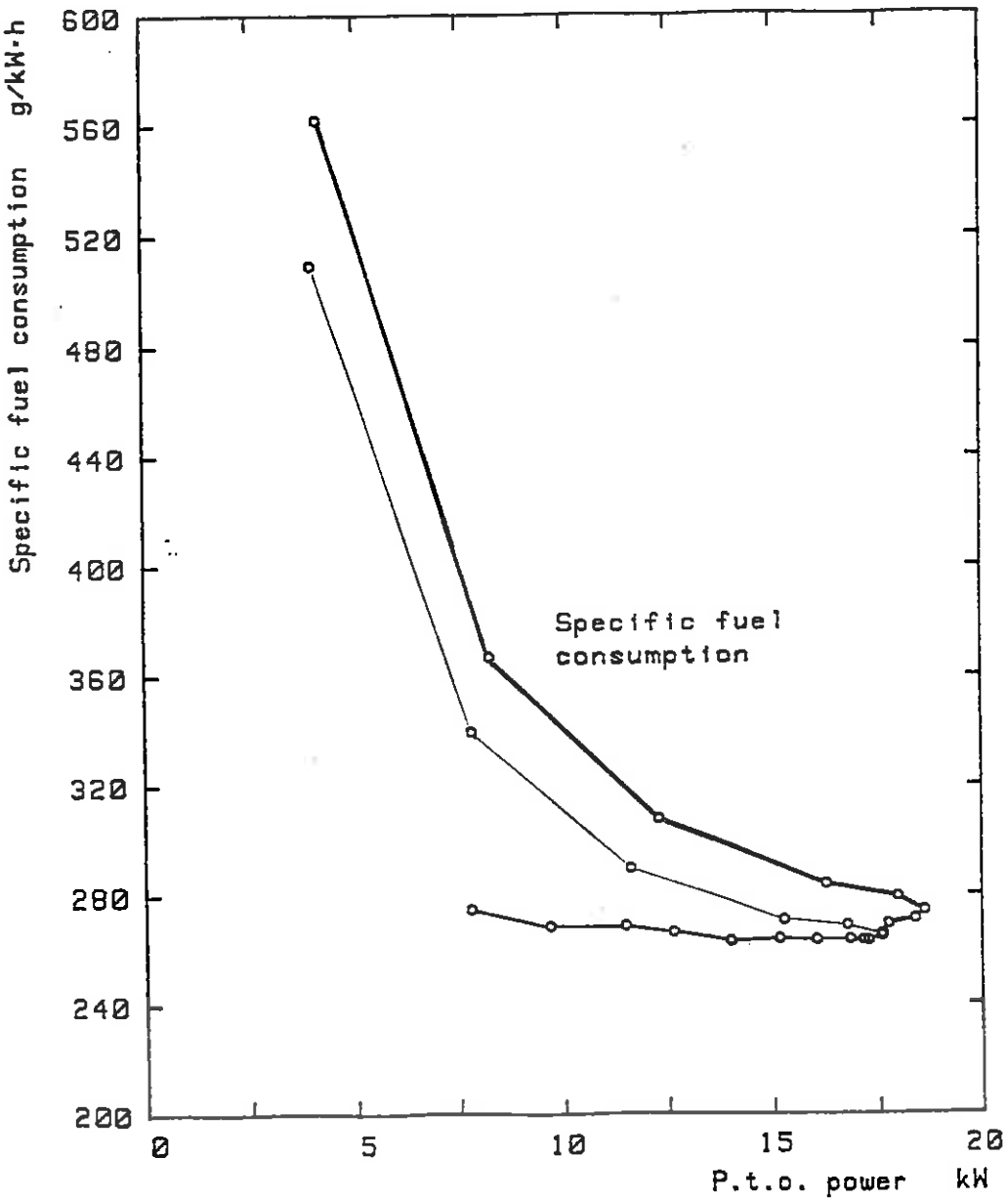
Mean atmospheric conditions
- **Temperature:** 21 °C
- **Pressure:** 103.4 kPa
- **Relative humidity:** 17 %

Maximum temperatures
- **Coolant:** 79 °C
- **Engine oil:** 103 °C
- **Fuel:** 27 °C
- **Engine air intake:** 26 °C

PTO PERFORMANCE



P.T.O. PERFORMANCE



(2) HYDRAULIC POWER AND LIFTING FORCE

Date of tests: 10th Dec., 1987

2.1 Hydraulic power test

Sustained pressure with relief valve open: (pump not stalled)	15.3 MPa
Pump delivery rate at minimum pressure:	29.85 l/min

Flow rate corresponding to a hydraulic pressure equivalent to 90 percent of the actual relief valve pressure setting and corresponding hydraulic power

Flow rate:	27.68 l/min
Pressure:	13.72 MPa
Power:	6.33 kW

Flow rate and hydraulic pressure corresponding to maximum hydraulic power

Flow rate:	29.10 l/min
Pressure:	13.53 MPa
Power:	6.56 kW

Tapping point used for test: At right side of clutch housing

Opening pressure of the unloading valve:	Not applicable
Closing pressure of the unloading valve:	Not applicable

2.2 Power lift test

	Height of lower hitch points 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 wheel axle kN·m	Maximum tilt angle of mast from vertical Degrees
At hitch points	175	685	10.14	13.5	–	–
On the frame	150	923	6.24	13.5	9.00	20

Linkage setting for test - see page 7 and 8.

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

mm	-270	-245	-200	-100	0	100	200	300	400	460	500	575

Lifting forces at hitch points (corresponding pressure 13.5 MPa)

kN	–	10.14	10.31	10.80	10.85	10.62	10.71	10.97	11.40	11.40	–	–

Lifting forces at test frame (corresponding pressure 13.5 MPa)

kN	9.55	–	9.52	9.35	8.94	8.45	7.94	7.43	7.02	-	6.64	6.24

(3) DRAWBAR POWER AND FUEL CONSUMPTION (UNBALLASTED TRACTOR)

Date of tests: 16 th Dec., 1987
Type of track: Concrete

Height of drawbar above ground: 332 mm

Tyre size and pressure:
Front: 7-14 180 kPa
Rear: 11.2-24 120 kPa

Gear	Power	Drawbar pull	Speed	Engine speed	Slip of wheels	Specific fuel consumption	Specific energy	Temperature			Atmospheric conditions		
								Fuel	Coolant oil	Engine	Temperature	Relative humidity	Pressure
	kW	kN	km/h	rev/min	%	g/kW·h	kW·h/l	°C	°C	°C	°C	%	kPa
1. Maximum power in tested gears													
L-1	3.72	11.28	1.19	2635	15.0	713	1.176	11	53	82	6	80	101.6
L-2	4.74	11.28	1.51	2626	15.0	630	1.327	13	54	85	6	80	101.6
L-3	5.86	11.28	1.87	2601	15.0	546	1.532	13	56	86	6	80	101.6
L-4	7.67	11.28	2.45	2586	15.0	481	1.739	14	62	88	6	80	101.6
M-1	9.81	11.28	3.13	2567	15.0	428	1.944	18	62	90	7	74	101.6
M-2	12.29	11.28	3.92	2535	15.0	394	2.111	18	68	93	7	74	101.6
M-3	13.63	9.81	5.00	2493	10.7	372	2.236	19	68	95	7	74	101.6
M-4	14.01	7.26	6.95	2483	5.7	361	2.304	20	71	96	8	74	101.6
H-1	13.76	5.69	8.71	2492	4.8	368	2.245	21	73	98	8	74	101.6
2. Fuel consumption													
2.1	In selected gear at maximum power and nearest to 7.5 km/h												
M-4	14.01	7.26	6.95	2483	5.7	361	2.304	20	71	96	8	74	101.6
2.1.1	75 % of pull at maximum power at rated speed												
M-4	11.31	5.49	7.42	2557	3.5	401	2.068	21	68	94	10	61	101.3
2.1.2	50 % of pull at maximum power at rated speed												
M-4	7.73	3.63	7.67	2613	2.4	481	1.725	21	69	96	10	61	101.3
2.1.3	Next higher gear at reduced engine speed; same pull and travelling speed as in 2.1.1												
H-1	11.37	5.49	7.45	2068	3.0	361	2.299	21	72	96	11	52	101.3
2.1.4	Next higher gear at reduced engine speed; same pull and travelling speed as in 2.1.2												
H-1	7.66	3.63	7.60	2095	2.4	416	1.992	22	70	93	11	52	101.3

OPTIONAL TEST RESULTS

(4) DRAWBAR PERFORMANCE(BALLASTED TRACTOR)

Date of tests: 17th Dec., 1987
Type of track: Concrete
Height of drawbar above ground: 312 mm

Tyre size and pressure:
Front: 7-14 180 kPa
Rear: 11.2-24 120 kPa

Gear	Power	Drawbar pull	Speed	Engine speed	Slip of wheels	Specific fuel consumption	Specific energy	Temperature			Atmospheric conditions		
								Fuel	Coolant oil	Engine	Temperature	Relative humidity	Pressure
	kW	kW	km/h	rev/min	%	g/kW·h	kW·h/l	°C	°C	°C	°C	%	kPa
Maximum power in tested gears (with ballast)													
L-1	4.46	13.73	1.17	2645	15.0	724	1.149	19	64	89	11	40	102.3
L-2	5.70	13.73	1.49	2644	15.0	586	1.420	19	66	91	11	40	102.3
L-3	7.14	13.73	1.87	2636	15.0	516	1.613	19	64	92	11	40	102.3
L-4	9.34	13.73	2.45	2622	15.0	459	1.815	18	70	94	11	40	102.3
M-1	11.94	13.73	3.13	2611	15.0	410	2.025	20	72	97	11	40	102.3
M-2	13.77	12.75	3.89	2476	12.7	376	2.207	20	71	98	10	15	102.3
M-3	14.00	10.00	5.04	2481	9.6	362	2.296	21	75	103	10	15	102.3
M-4	13.86	7.26	6.87	2460	5.9	363	2.297	16	71	96	10	15	102.3

(5) NOISE MEASUREMENT AT THE DRIVER'S EAR

Date of tests: 18th Dec., 1987
Sound level meter
Make: RION
Model:Impulse sound level meter
Type: NA-61
Type of track: Concrete

Gear number	Drawbar pull	Measured travelling speed	Sound Level	
			Front engaged	Front disengaged
	kN	km/h	dB(A)	dB(A)
Unloaded test in the gear giving the speed nearest to 7.5 km/h				
M-4	light load	7.70	86	86
Unloaded test in the gear giving the maximum speed				
H-4	light load	20.88	87.5	87.5
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)]				
M-4	6.37	7.16	87.5	87.5
M-3	8.92	5.15	89	88

REPAIRS AND ADJUSTMENTS DURING TESTS None

REMARKS None