ISTITUTO SPERIMENTALE PER
LA MECCANIZZAZIONE AGRICOLA
SEZIONE DI TREVIGLIO

O.E.C.D. n.1104
restricted code

Test in accordance with O.E.C.D. Restricted Standard Code for the official testing of agricultural tractors

Report on test of: SAME EXPLORER 60 DT "4WD"



Submitted for test by: SAME TRATTORI S.p.A.
V.le Cassani 15
24047 TREVIGLIO (BG)

Date of approval O.E.C.D.: 28.10.1987

Period of test: SEPTEMBER 1987

I.S.M.A. - TREVIGLIO
Via Milano, 43

TEST n.036

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TABLE OF CONTENTS

- Specification of tractor 2
- Power take-off performance 16
- Power lift and hydraulic power test 20
- Drawbar performance 21

All stated dimension and tests referred to tyre size 12.4/24 (6plr) at front and 16.9/30 (6plr) at rear, as well as to track whiths 1500 mm at front and 1500 mm at rear.

ISTITUTO SPERIMENTALE PER
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SEZIONE DI TREVIGLIO

- Tractor manufacturer's: SAME TRATTORI S.p.A. TREVIGLIO (BG);
- Submitted for test by: the manufacturer;
- Selected by: the manufacturer with the agreement of ISMA;
- Place of running in: TREVIGLIO;
- Duration of running in: 50 hours.

I - SPECIFICATIONS OF TRACTOR

TRACTOR

- Make: SAME;
- Model : EXPLORER 60 DT "4WD";
- Type: Wheeled tractor, unit constr.,all wheels drive tractor;
- Serial no: 10321;
- First serial no.:10001.

ENGINE

- Make: SAME;
- Model: 1000.3 A;
- Type : Air cooled 4 stroke Diesel engine direct injection;
- Serial n.: 1345.

Cylinders

- Number/disposition: 3 vertical in line;
- Bore/stroke: 105/115.5 mm;
- Capacity: 3000 cc;
- Compression ratio: 17.1/1;
- Arrangement of valves: Overhead;
- Cylinder liners: without liners.

Fuel system

- Fuel feed system: AC corone fuel feed pump;
- Make, type and model of fuel filter: FIAMM FNA 166/00
- Capacity of fuel tank: 70 l;

- Make, type and model of injection pump: BOSCH PFR 1K 90 A 503, immersed pump one for cylinder,whitout serial number, in line injection pump.
- Manufacturer's production setting of injection pump:
  . flow rate 55.8 ± 3 mm3/stroke at rated speed and full load;
  . timing 18 ± 0.5 before TDC;
- Make, type and model of injectors:BOSCH DLLA 150 S 925 multihole injection nozzles;
- Injection pressure: 180 ± 10 bar.

Governor

- Make: SAME;
- Type: mechanical variable speed;
- Model: 065.1652.4;
- Governor range of engine speed from 675 to 2597 rev/min;
- Rated engine speed : 2500 rev/min.

Air Cleaner

- Main filter
  . Make: DONALDSON;
  . Type: Dry paper element filter;
  . Model: FKG 06-5296
  . Location : front of engine;
- Maintenance indicator : with the warning lamp on the dashboard.

Lubrication system

- Type : forced feed from gear pump;
- Total oil capacity including filter: 9.2 l;
- Oil change period : 125 hrs;
- Type of filter : FIAMM FT 4803 IN;
- Number: 1;
- Filter change period: 300 hrs;
- Oil specifications (see pag.15)

Cooling system

- Type and detail: air cooling with axial blower;
- No. of fan blade : 13 driven from engine shaft;
- Diameter : 280;
- Type of temperature control: none.

Starting system

- Safety device: Preventing engine start in gear;
- Make: BOSCH;
- Model: JF 12 V;
- Type: electromagnetic engagement;
- Power: 3 kW for start motor rating;
- Starting system for low temperatures: thermostarter(opt.).

Electrical equipement

- Voltage: 12 V;
- Generator
  . Make: BOSCH;
  . Type: alternator K1 14V 55 A 20;
  . Power: 770 W - 45 A;
- Battery : 1 lead acid;
  . Capacity: 110 Ah at 20 hours.

Exhaust system

- Make: SAME;
- Type: 4 chambers reflection absorption;
- Model: 255.5630.3;
- Location: on the left hand side of engine cowling, vertical position;
- Height of outlet above ground: 2570 mm.

TRANSMISSION

Clutch: utilized only for travelling of tractor
- Make: SAME;
- Type : single disc dry clutch;
- Model: 270.23;
- Disc diameter: 280 mm;
- Control system: hydraulically operated by pedal self readjusting.

Gear box

- Make: SAME;
- Type: mechanical syncromesh speed change gear with 4 speeds forward, with 3 ranges speed and 1 reverse group;
- Model: 270.31;
- No. speeds: 12 forward and 12 reverse;
- Available options: 24 forward and 12 reverse or 16 forward and 16 reverse or 20 forward and 20 reverse.

Rear axle and final drives

- Make: SAME;
- Type: bevel gear differential and epicyclic final drive;
- Model: 270.44;
- Differential lock: yes;
- Model: SAME;
- Type: mechanical;
- Control system: engaged or disengaged with pedal.

Front axle and final drive

- Make: SAME;
- Type: 270.43;
- Model: original SAME system with central shaft bevel gear drive, differential and epicyclic final drive;
- Differential lock: yes;
  - Model: SAME;
  - Type: mechanical;
  - Method of engagement: with pedal;
  - Metod of disengagement: with pedal.

Transmission lubrication

- Oil capacity
  - Gear box, rear axle, final drive,power lift and hydraulic system: in common, total capacity filter including 45 l;
  - Change period: 1200 hrs;
  - Filter change period: when the filter clogging warning lamp is lighted;
  - Front axle and final drive: total capacity 6 l;
  - Changing: 1200 hrs;
- Recommended oil: see pag.15.

SAME EXPLORER 60 DT "4WD" TEST 036 6

Total ratios and speeds

Group		Number of engine revolutions for one revolution of the driving wheels	Nominal traveling speed at a rated engine speed of 2500 rev/min
FORWARD			
1		494.57	1.323
2	SLOW	371.72	1.761
3		281.80	2.323
4		212.31	3.083
1		155.28	4.216
2	NORMAL	116.71	5.609
3		88.47	7.400
4		66.66	9.821
1		51.29	12.764
2	FAST	38.55	16.982
3		29.22	22.405
4		22.01	29.745
REVERSE			
1		474.93	1.378
2	SLOW	357.00	1.835
3		270.60	2.419
4		203.90	3.211
1		149.11	4.391
2	NORMAL	112.07	5.842
3		85.00	7.702
4		64.01	10.228
1		49.25	13.293
2	FAST	37.01	17.689
3		28.06	23.332
4		21.14	30.969

- Tyre size 16.9/30 inflaction pressure: 1.3 bar
- Tyre radius index: 695 mm (E.T.R.T.O. norm).

POWER TAKE-OFF

Main power take-off

- Type: independent at rear of tractor, in tractor's median plane, engaged or disengaged through hand lever. Driven by multiplate wet clutch independent of travel clutch; ISO standard 500-1979.

Power take-off proportional to engine speed

540 rev/min

It is possible,through 6 screws, to mount: one take-off shaft end at 6 or at 21 splines. Changing speeds through external hand lever;

- Location:at rear of tractor;
- Diameter of power take-off shaft end: 34.9 mm;
- Number of splines: 6 in conformity with "ISO Standard 500 - 1979";
- Height above ground with tyre size 16.9/30: 710 mm;
- Distance from the median plane of the tractor 0 mm;
- Distance behind rear axle: 380 mm;
- PTO speed: 614 rev/min at rated engine speed;
- Engine speed: 2198 rev/min at standard power take-off speed 540 rpm;
- Ratio of rotation speeds (engine speed/p.t.o. speed): 4.0714;
- Max power and torque trasmissible: 79 kW and 109.2 daNm;
- Direction of rotation (viewed facing driving end): clockwise.

1000 rev/min

- Location: at rear of tractor;
- Diameter of power take-off shaft end: 34.9 mm;
- Number of splines: 21 in conformity with "ISO Standard 500 - 1979";
- Height above ground with tyre size 16.9/30: 710 mm;
- Distance from the median plane of the tractor 0 mm;
- Distance behind rear axle: 380 mm;
- PTO speed at rated engine speed: 1020 rev/min
- Engine speed 2450 rev/min at standard power take-off speed: 1000 rpm;
- Ratio of rotation speeds (engine speed/p.t.o. speed): 2.450;
- Direction of rotation (viewed facing driving end): clockwise.

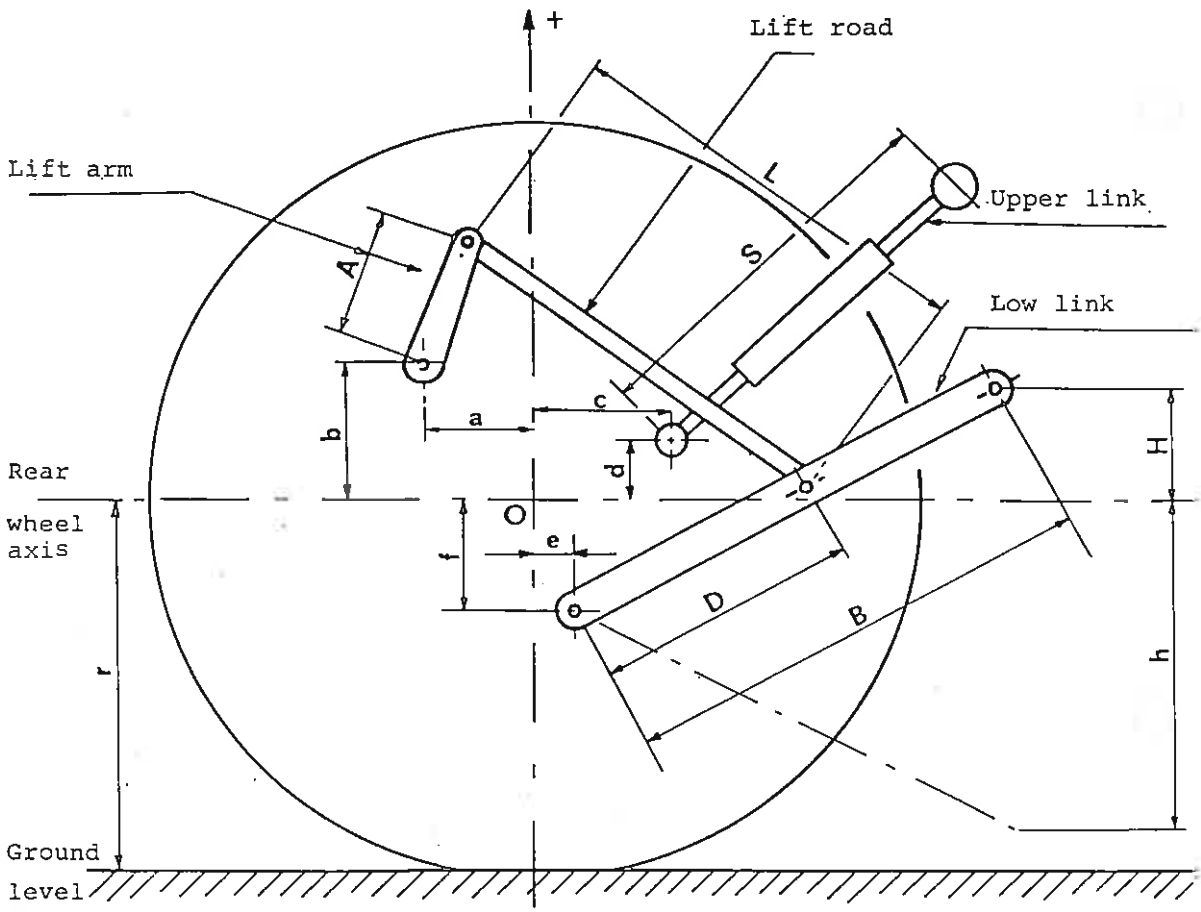
POWER LIFT

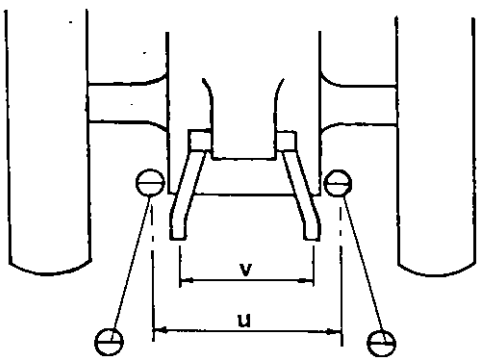
- Make: SAME;
- Type: LOAD SENSING open centre system;
- Type and number of cylinders: 2 external hydraulic at simple effect;
- Type of locking for the transport: mechanical, with screwed tie rods that lock the lower links;
- Exercise valve pressure: 190+5 bar;
- Opening pressure anti-shock valve: 210 bar;
- Lift pump type: hydraulic rotary pump,driven from engine shaft;
- Transmission between pump and engine: mechanical
- Type and number of filters: 1, replaceable paper cartridge;
- Changing: when the filter clogging warning lamp is lighted;
- Oil capacity: 45 l in common with gear box;
- Site of oil reservoir: gear box;
- Position and No.of additional oil plugs: 3 ways distributor at rear of tractor;
- Maximum volume of oil available to external cylinders: 15 l;
- Recommended oil (see pag.15).

Three-point linkage

- Category: 2 in conformity with ISO 730/I;

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SEZIONE DI TREVIGLIO

Specify the settings for the lifting test

Rear tyres (size 16.9/30)		(r)	695 mm
Front tyre (size 12.4/24)		(r')	540 mm
Length of lift arms		(A)	310 mm
Length of lower links		(B)	725 mm
Distance of lift arm pivot point from rear wheel centre line	:horizontally	(a)	122 mm
	:vertically	(b	337 mm
Horizontally distance between the 2 lower link points		(u)	480 mm
Horizontally distance between the 2 lift arm end points		(v)	490 mm
Length of upper link		(S)	from 580 to 700 mm
Distance of upper link pivot point from rear wheel centre line	horizontally	(c)	320 mm
	vertically	(d)	220 mm
Distance of lower link pivot point from rear wheel centre	horizontally	(e)	215 mm
	vertically	(f)	190 mm
Distance of lower link pivot points to lift rod pivot points on lower link		(D)	363 mm
Length of lift rods		(L)	720 mm
Height of lower hitch points:			
- in Low position		(h)	500 mm
- in High position relative to the rear wheel centre line, situated 695 mm above the ground level		(H)	165 mm

SWINGING DRAWBAR

- Type: SAME 97320;
- Height above ground (tyre size:16.9/30) max 450 mm
  min 375 mm
- Type of adjustment: reversible;
- Distance of hitch point from rear axle axis, horizontally: 815 mm;
- Distance of hitch point fron power take-off shaft end
  . vertically: 283 - 358 mm below;
  . horizontally: 485 mm behind;
- Laterel adjustement (centre of clevis):
  (right hand) 270 mm;
  (left hand) 270 mm;
- Distance of pivot point from rear axle axis, horizontally: 485 mm forward;
- Diameter drawbar pin hole: 33 mm.

TRAILER HITCH

- Type: SAME;
- Height above ground: 470 - 600 - 730 mm;
- Distance of hitch point from rear axle axis, horizontally: 530 mm;
- Distance of hitch point from power take-off shaft end:
  . vertically: behind 240 - 110 mm above 20 mm;
  . horizontally: 150 mm;
- Maximun vertical permissible load: 1470 daN;
- Diameter of the pin hole: 28.5 mm.

HOLED DRAWBAR

- Number of holes: 7;
- Distance between holes: 100 mm;
- Hole diameter: 28.5 mm;
- Thickeness/width of the drawbar: 30 - 80 mm;
- Height above ground , minimum 220 mm;
  maximum 910 mm;
- Horizontal distance to power take-off shaft end (rear) 560 mm.
- Diameter of the pin hole: 28.5 mm.

STEERING

- Specifications: hydrostatic steering whit BOSCH hydraulic gear pump HY/ZFS 11/8 L 208. Two rams at simple effect acting directly on front axle;
- Make: DANFOSS;
- Model: ORBITROLL;
- Type: OSPC 80 OR;
- Working pressure: 120 bar;
- Oil capacity: 45 l in common with gear box;
- Oil change period: 1200 hrs;
- Filter change period: when the filter clogging warning lamp is lighted;
- Recommended oil (see pag.15).

BRAKE

Service brake
- Make: SAME;
- Model: 270.54;
- Type: oil bath disc, total 4 discs, mounted before 2 at front and 2 at rear differential half schafts.Front disc dia=178 mm ; rear disc dia=280 mm FRENDO HDT 303 lining material;
- Method of operation: hydraulically acting with 2 pedals.
- Trailer braking take-off: none.

Parking brake
- Type: fully indipendent by service brake, 2 oil bath discs mounted on the pinion shaft in the gear box ISOBOND SINTERIX lining material;
- Method of operation: mechanically by hand lever.

Steering brake : divided pedal of service brake for normal use locked together.

STEERING WHEELS

- Number: 2;
- Location: at front;
- Tyres: radial;
  . Size: 12.4/24;
  . Ply rating: 6;
  . Maximum permissible load on each tyre: 1177 daN;
  . Corresponding inflation pressure: 1.7 bar;
- Track widths: 1400-1500-1600-1700-1800-1900 mm;
- Regulation: changing the position of the rims in respect of the disc.

DRIVING WHEELS

- Number: 4;
- Location: 2 at front and 2 at rear;
- Tyres:
  . Size: 16.9/30;
  . Ply rating: 6
  . Type of casing: radial;
  . Maximum permissible load on each tyre: 1864 daN;
  . Corresponding inflation pressure: 1.3 bar;
- Track widths: 1400-1500-1600-1700-1800-1900-2000 mm;
- Regulation: changing the position of the rims in respect of the disc.

WHEELBASE: 2120 mm.

PROTECTIVE STRUCTURE

Specifications

- OECD approval number: CSD 01032/8;
- Trade name: SAME C 26 A;
- Manifacturer's name: SAME;
- Protective device: cab.

Materials used in the construction and dimensions

See OECD Test Report on Protective Stuctures.

DRIVER'S SEAT

- Make: BOSTROM;
- Model: XL;
- Type of suspension: 84422 upholstered seat with back rest;
- Type of damping: shock absorber;
- Range of adjustment, longitudinal 150 mm;
  vertical 60 mm.

LIGHTING

Lighting system in accordance with CEE 78/933

	Height above ground of centre with tyre(1) mm	Size mm	Distance from out side edge of trac tor to centre at 1500 mm track width mm
Headligths	960	110*110	785
Front park.lights	1770	110*35	150
Front finger post	1805	110*35	150
Rear park.lights	1600	180*35	280
Rear finger post	1635	90*45	235
Stop	1635	90*45	325
Reflectors	1415	90*60	320

(1) Tyre size: 12.4/24 6 ply front - 16.9/30 6 ply rear.

TEST CONDITIONS

- Overall dimensions with tyres:
- Front 12.4/24 6 ply - Rear 16.9/30 6 ply

	Length (mm)	Width (mm) min	Width (mm) max	Height (mm) at top of exaust sil.	Height (mm) at top of protec.struc.
Without ballast	3760	1780	2380	2570	2540

Ground clearance

-Clearance-limiting part: 420 mm, below front traction gear

Track setting

- Front: 1500 mm;
- Rear: 1500 mm;

Tractor mass (without driver but with thanks full with cab, water in tyres none);

	Units	Front	Rear	Total
Without ballast	kg	1265	1510	2775
With ballast	kg	1485	1710	3195

Fuel and lubricants recommended and used in tests
all in accordance with API Norm

Fuel
Type: AGIP Diesel, DIN 51601;
Specific gravity at 15 °C: 0.840 kg/l;

Engine oil
- Type: AGIP DIESEL SIGMA S SAE 30;
- Viscosity: 12.5 cSt;
- API: SE-CD.

Transmission oils and rear, front axle and final drive oils;
- Type: AGIP ROTRA THT;
- Viscosity: 11.5 cSt;
- Viscosity index: 95;
- API: GL-3.

Power lift oil
- Type: AGIP ROTRA THT;
- Viscosity: 11.5 cSt;
- API: GL-3.

Steering oil
- Type: AGIP ROTRA THT;
- Viscosity: 11.5 cSt;
- API: GL-3.
Recommended grease: AGIP GREASE 30;
- Number of lubrication points: 11.

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II - TEST RESULTS

A. COMPULSORY TESTS RESULTS

1) MAIN POWER TAKE-OFF PERFORMANCE

- Date and location of test: 22 th SEPT 1987 - I.S.M.A. TREVIGLIO (BG) ITALY
- Type of dynamometer: ZOELLNER 350 AC

Power	Speed		Fuel consumption			Specific
	Engine	P.T.O.	Hourly	Specific		Energy
KW	rev/min	rev/min	l/h	Kg/h	g/kWh	KWh/l
MAXIMUM POWER - 2 - HOUR TEST						
39.0	2503	615	12.53	10.53	270	3.11
POWER AT RATED ENGINE SPEED						
39.0	2503	615	12.53	10.53	270	3.11
STANDARD POWER TAKE-OFF SPEED (540+/-10 REV/MIN)						
36.6	2199	540	11.60	9.74	266	3.16
PART LOADS						
i) torque corresponding to maximum power at rated engine speed						
39.0	2503	615	12.53	10.53	270	3.11
ii) 85% of torque obtained in i)						
34.0	2565	630	11.00	9.24	272	3.09
iii) 75% of torque definited in ii)						
25.5	2577	633	8.91	7.48	293	2.87
iv) 50% of torque defined in ii)						
17.0	2584	635	7.20	6.05	356	2.36
v) 25% of torque defined in ii)						
8.5	2591	637	5.22	4.38	516	1.63
vi) unloaded						
0	2597	638	3.29	2.76	0	0

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PART LOADS AT STANDARD POWER TAKE-OFF SPEED

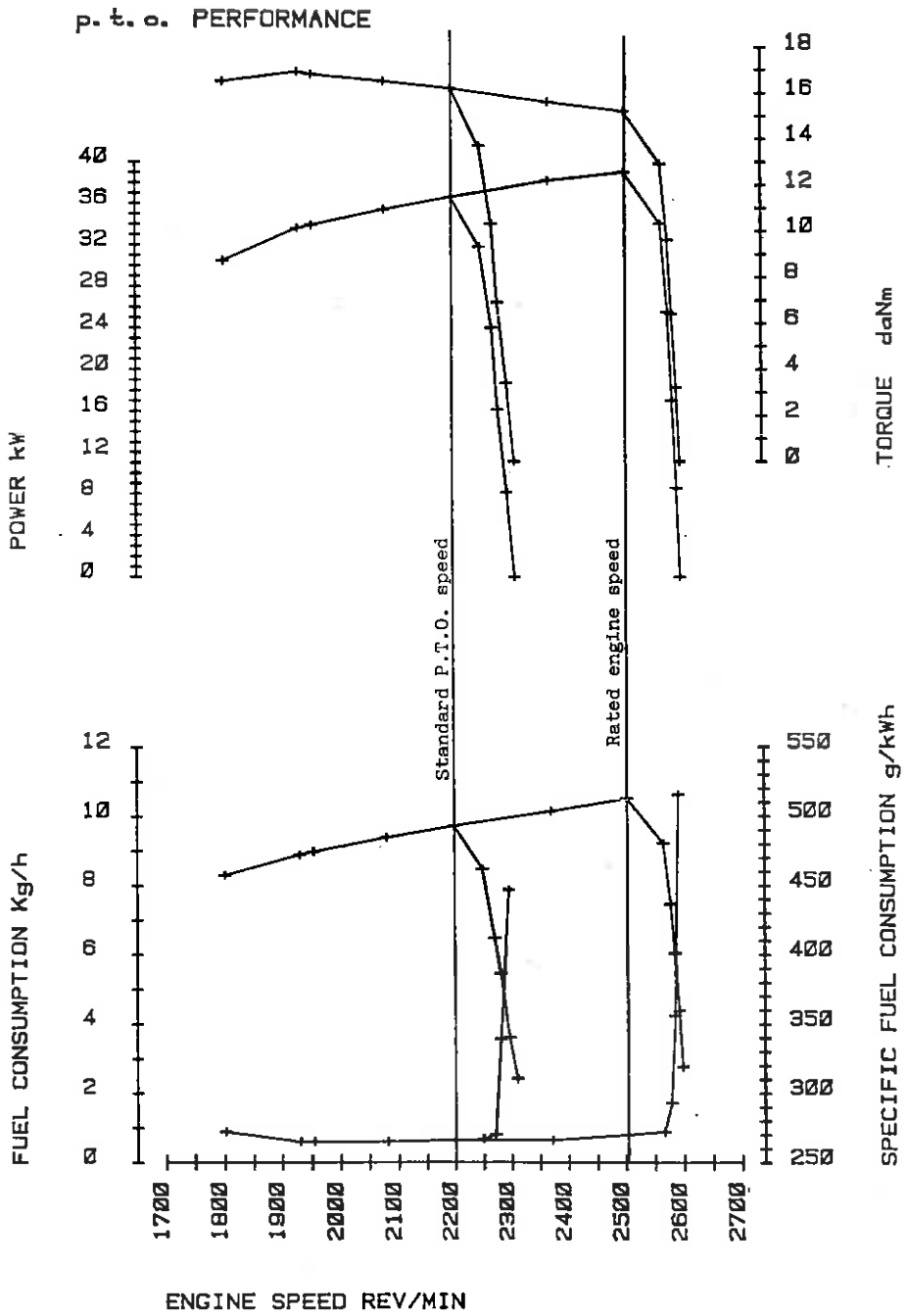
Power	Speed		Fuel consumption			Specific
	Engine	P.T.O.	Hourly	Specific		Energy
kW	rev/min	rev/min	l/h	kg/h	g/kWh	kWh/l
i) The torque corresponding to maximum power available						
36.60	2199	540	11.60	9.74	266	3.16
ii) 85% of torque obtained at maximum power						
31.8	2249	553	10.10	8.49	267	3.14
iii) 75% of torque defined in ii)						
24.0	2270	558	7.72	6.49	270	3.11
iv) 50% of torque defined in ii)						
16.1	2280	560	6.50	5.46	339	2.47
v) 25% of torque defined in ii)						
8.1	2296	564	4.30	3.61	447	1.88
vi) unload						
-	2310	568	2.88	2.42	-	-

STANDARD SPECIFIC FUEL CONSUMPTION: 272/356/267/339 g/kWh

- No load maximum engine speed: 2597 rev/min
- Torque (1) at maximum power: 15.20 daNm
- Maximum torque (1) (engine speed: 1930 rev/min):16.8 daNm
- Mean atmospheric conditions : Temperature .. 23°C
  Pressure .... 985 mbar
  Relat.humidity 81 %
- Maximum temperatures : Coolant 106°C
  Engine oil 131°C
  Fuel 31°C
  Engine air intake 20°C

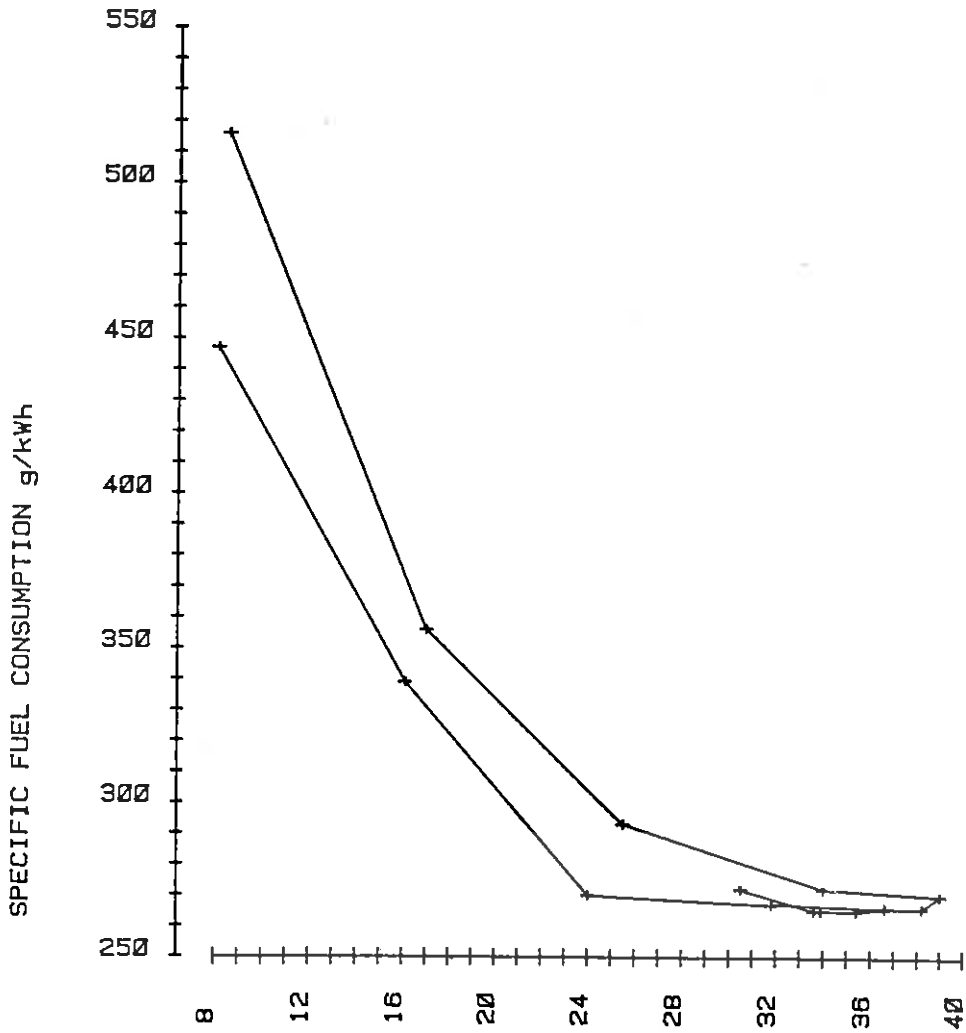
(1) The torque is the equivalent crankshaft torque.

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p. t. o. PERFORMANCE



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(2) POWER LIFT AND HYDRAULIC POWER TEST

Hydraulic fluid: AGIP ROTRA THT, 11.5 cst, viscosity index 95
temperature at beginning test: 65 C°

- Date and location of tests: 29 th sept 1987 - ISMA Treviglio (BG)

		at hitch point	on the frame
Height of lower hitch point above ground in down position	mm	200	200
Vertical movement	mm	665	815
Maximum corrected force exerted through full range	daN	1667	1402
Corresponding pressure of hydraulic fluid	bar	191	191
Moment about rear axle	daNm	1567	2173
Maximum tilt angle of mast over range of lift	Degrees	--	-9

Lifting heights relative to the horizontal lower links

mm	-310	-300	-200	-100	0	100	200	300	355	400	500	505
Lifting forces at hitch points												
daN	1667	1671	1716	1765	1814	1863	1937	2030	1839	----	----	----
Lifting forces at test frame												
daN	1446	1449	1461	1492	1515	1529	1517	1471	----	1441	1410	1402

HYDRAULIC POWER TEST
Sustained pressure with relief valve open: 195 bar;
Pump delivery rate at min pressure: 28.5 l/min;

Hydraulic power	kW	flow rate l/min	pressure bar	oil temp. °C
At 90% of the actual reliev valve setting	8.00	28	175	60
Maximum	8.00	28	175	60

Tapping point used for test : at rear of tractor
Hydraulic fluid: see pag.15.

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(3) MAXIMUM POWER TRANSMISSION AND FUEL CONSUMPTION AT THE DRAWBAR
(UNBALLASTED TRACTOR)

- Date of tests: 30/09/1987
- Type of track: concrete
- Type and size of tyres front: 12.4/24 6 plr
  rear : 16.9/30 6 plr

Height drawbar above ground : 580 mm
Tyre inflation pressure : front 1.7 bar
rear 1.3 bar

1) MAXIMUM DRAWBAR IN TESTED GEARS

Gear	Pow.	Draw. pull	Speed	Engine speed	Slip of wheel	Specific ener.cons.	fuel	Temperat. cool.	eng.	Atm. condit. temp.	hum.	pres.
n.	kW	daN	km/h	rev/min	%	kWh/l	g/kWh	°C	°C	°C	°C	%	mbar
1S	7.50	2368	1.14	2582	15.0	1.03	817	27	58	90	23	71	997
2S	9.97	2394	1.50	2571	15.0	1.03	812	27	58	92	23	71	997
3S	13.15	2391	1.98	2563	15.0	1.18	709	27	58	92	23	71	997
4S	17.24	2388	2.60	2549	15.0	1.51	556	28	60	93	24	71	998
1N	23.55	2389	3.55	2526	15.0	1.95	431	29	60	94	24	71	9
2N	30.54	2360	4.66	2514	15.0	2.48	338	29	61	96	24	71	998
3N	34.76	1914	6.54	2502	9.0	2.78	302	29	62	99	24	70	998
4N	33.96	1338	9.14	2501	6.0	2.69	311	30	64	101	24	71	998

S = slow N = normal F = fast

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Gear	Pow.	Draw. pull	Speed	Engine speed	Slip of wheel	Specific ener.cons.	Temperat. fuel	cool.eng.	Atm.condit. temp.	hum.	pres
n.	kW	daN	km/h	rev/min	%	kWh/l g/kWh	°C	°C	°C	°C	%	mbar

TRANSMISSION AND FUEL CONSUMPTIOM CHARACTERISTICS

i) - Selected gear													
3N	34.76	1914	6.54	2502	9	2.78	302	29	62	99	24	71	998
ii) - 75% Of pull at maximum power													
3N	27.22	1435	6.83	2563	5	2.43	346	30	64	101	24	71	998
iii) - 50% of pull at maximum power													
3N	18.70	962	7.00	2577	3	2.08	402	30	64	103	24	71	998
iv) - Highest gear giving the same pull as in ii) ,reduced engine speed													
4N	27.38	1429	6.90	1941	4	2.98	282	31	64	103	24	71	998
v) - Highest gear giving the same pull as in iii), reduced engine speed													
4N	19.08	961	7.15	1998	3	2.41	348	31	65	104	24	71	998

ISTITUTO SPERIMENTALE PER
LA MECCANIZZAZIONE AGRICOLA
SEZIONE DI TREVIGLIO

REMARKS: none

TEST CARRIED OUT BY
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