MINISTERO DELL'AGRICOLTURA E DELLE FORESTE
Direzione Generale Produzione Agricola

ISTITUTO SPERIMENTALE PER
LA MECCANIZZAZIONE AGRICOLA
SEZIONE DI TREVIGLIO
Via Milano, 43 - 24047 TREVIGLIO (BG) ITALY
tel. 0363/49603

O.E.C.D. n.1007
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 70 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.: 16/05/1986

Period of test: January 1986

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

TEST n.024

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ISTITUTO SPERIMENTALE PER
LA MECCANIZZAZIONE AGRICOLA
SEZIONE DI TREVIGLIO

SAME EXPLORER 70 DT "4WD" TEST N.024

TABLE OF CONTENTS

- Specification of tractor ..... pag. 2
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- Power lift and hydraulic power test ..... pag. 20
- Drawbar performance ..... pag. 21

All stated dimension and texts 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.

- 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 70 DT "4WD";
- Type: Wheeled tractor, unit constr.,all wheel drive tractor;
- Serial no.: 10030;
- First serial no.:10001.

ENGINE

- Make: SAME;
- Model: 1000.4 A;
- Type : air cooled 4 stroke Diesel engine direct injection;
- Serial n.: 10045.

Cylinders

- Number/disposition: 4 vertical in line;
- Bore/stroke: 105/115.5 mm;
- Capacity: 4000 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 472, immersed pump, one per cylinder whitout serial number, in line injection pump;

- Manufacturer's production setting of injection pump:
  . flow rate 49.5 ±3 mm 3/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 ± 15 bar.

Governor

- Make: SAME;
- Type: mechanical variable speed;
- Model: 086.1652.4;
- Governor range of engine speed from 675 to 2509 rev/min;
- Rated engine speed : 2350 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 : 1250 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;
- Diameter : 280 mm;
- 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;
- Battery : 1 lead acid;
  . Capacity: 110 Ah at 20 hours.

Exhaust system

- Make: SAME;
- Type: 4 chambers reflection absorption;
- Model: 255.6610.3;
- 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: 255.23;
- 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: 255.31;
- 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: 255.44;
- Differential lock: yes
- Type: mechanical;
- Model: SAME;
- Control system: engaged or disengaged with pedal.

Front axle and final drive

- Make: SAME;
- Model: original SAME system with central shaft bevel gear drive, differential and epicyclic final drive;
- Type: 255.43;
- 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.

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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 2350 rev/min
	FORWARD		
1		494.570	1.230
2	SLOW	371.720	1.640
3		281.800	2.160
4		212.310	2.870
1		155.280	3.930
2	NORMAL	116.710	5.230
3		88.470	6.900
4		66.660	9.160
1		51.290	11.910
2	FAST	38.550	15.850
3		29.220	20.760
4		22.010	27.760
	REVERSE		
1		474.930	1.280
2	SLOW	357.000	1.620
3		270.600	2.250
4		203.900	2.990
1		149.110	4.090
2	NORMAL	112.070	5.450
3		85.000	7.190
4		64.010	9.550
1		49.260	12.410
2	FAST	37.010	16.510
3		28.060	21.780
4		21.140	28.910

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

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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 trav 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: 609 rev/min at rated engine speed;
- Engine speed: 2083 rev/min at standard power take-off speed 540 rpm;
- Ratio of rotation speeds (engine speed/p.t.o. speed): 3.857;
- Max power and torque trasmissible: 90 kW and 124.5 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: 1028 rev/min
- Engine speed 2285 rev/min at standard power take-off speed: 1000 rpm;
- Ratio of rotation speeds (engine speed/p.t.o. speed): 2.2857;
- Direction of rotation (viewed facing driving end): clockwise.

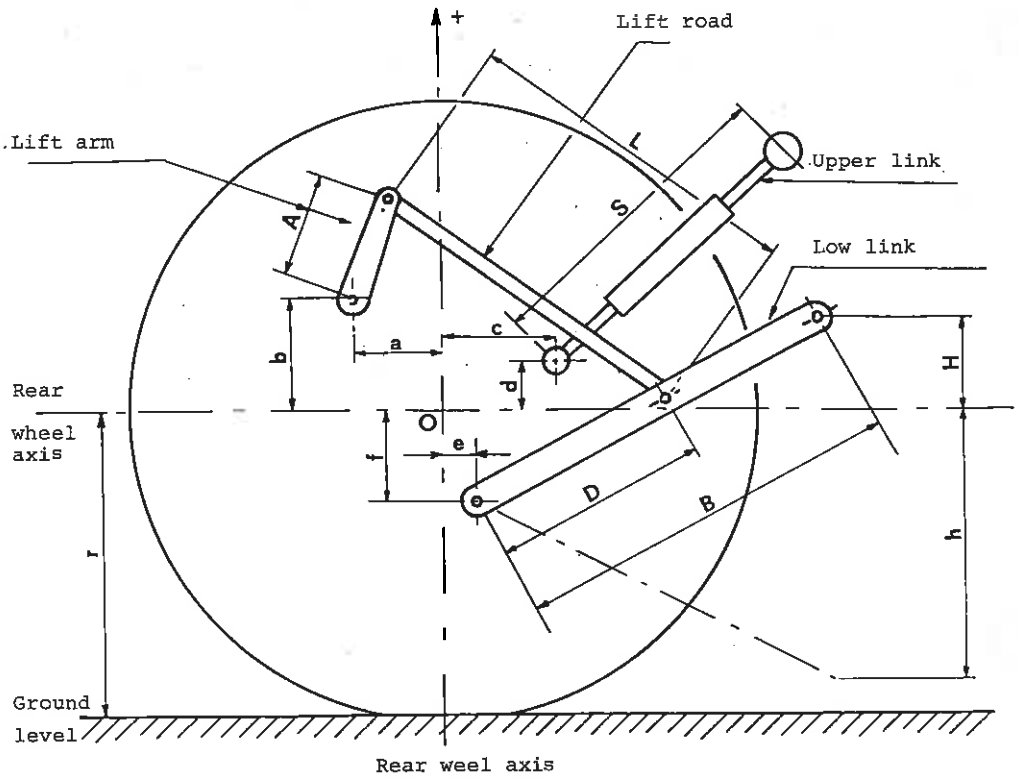
POWER LIFT

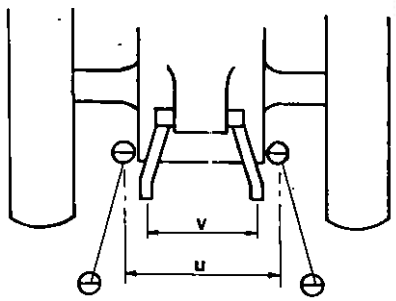
- Make: SAME;
- Type: LOAD SENSING open centre system;
- Type and number of cylinders: 2 at simple effect;
- Type of locking for the transport: mechanical, with screwed tie rods that lock the lower links;
- Exercise valve pressure: 160 bar;
- Opening pressure anti-shock valve: 180 bar;
- Lift pump type: 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 whit 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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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 :horizontally	(a)	122 mm
pivot point from rear :vertically	(b	337 mm
wheel centre line		
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 680 to 700 mm
Distance of upper link horizontally	(c)	320 mm
pivot point from rear vertically	(d)	220 mm
wheel centre line		
Distance of lower link horizontally	(e)	215 mm
pivot point from rear vertically	(f)	190 mm
wheel centre		
Distance of lower link	(D)	363 mm
pivot points to lift		
rod pivot points on lower link		
Length of lift rods	(L)	from 640 to 740 mm
Height of lower hitch points:		
- in Low position	(h)	495 mm
- in High position	(H)	145 mm
relative to the rear wheel centre line, situated 695 mm above the ground level		

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 forward;
- Lateral 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.

HOLED DRAWBAR

- Number of holes: 7;
- Distance between holes: 100 mm;
- Hole diameter: 28.5 mm;
- Thickness/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 pinhole: 28 mm;

STEERING

- Specifications: hydrostatic steering whit BOSCH hydraulic gear pump HY/ZFS 11/8 L 208;
- Two rams at double effect acting directly on front axle.

- Make: DANFOSS;
- Model: ORBITROLL;
- Type: OSPC 80 OR;
- Working pressure: 120 bar;
- Oil capacity: 45 l in common whit gear box;
- Oil change period: 1200 hrs;
- Filter change period: when the filter clogging warning lamp is lighted;
- Recommended oil (see pag.14).

BRAKE

Service brake

- Make: SAME;
- Model: 255.54;
- Type: oil bath disc, total 4 discs, mounted before 2 at front and 2 at rear differential half schafts.Front disc dia=224 mm ; rear disc dia=290 mm FRENDO HDT 303 lining material;
- Method of operation: hydaulically acting with 2 pedals.
- Trailer braking take-off: none;

Parking brake

- Type: fully indipendent by service brake, 3 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: 1176.8 daN;
  . Corresponding inflation pressure: 1.7 bar;
- Track widths: 1500-1600-1700-1800-1900-2000 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: 1863.3 daN;
  . Corresponding inflation pressure: 1.3 bar;
- Track widths: 1500-1600-1700-1800-1900-2000 mm;
- Regulation: changing the position of the rims in respect of the disc.

WHEELBASE: 2280 mm.

PROTECTIVE STRUCTURE

Specifications

- OECD approval number: is approving by OECD;
- Trade name: SAME C 25 A;
- Manifacturer's name: SAME;
- Protective device: cab.

Materials used in the construction and dimensions

See OECD Provisional Test Report on Protective Stuctures.

DRIVER'S SEAT

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

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LIGHTING

Lighting system in accordance with CEE 78/933

	Height above ground of centre with tyre (mm)	Size (mm)	Distance from out side edge of trac tor to centre at 1500 (mm) track width (mm)
Headligths	965	110*110	820
Front park.lights	1790	110*35	205
Front finger post	1825	110*35	205
Rear park.lights	1610	180*35	370
Rear finger post	1650	90*45	325
Stop	1650	99*45	415
Reflectors	1420	90*60	355

Tyre size: 12.4/24 front - 16.9/30 rear.

TEST CONDITIONS

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

	Length (mm)	Width (mm) min	Width (mm) max	Height (mm) at top of exaust sil.	Height (mm) at top of protec.struc.
Without ballast	3990	1970	2570	2570	2540
With ballast	4390	1970	2570	2565	2535

Ground clearance

-Clearance-limiting part: 410 mm.

Track setting

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

Tractor mass (without driver but with tanks full with cab) Water in tyres none.

	Units	Front	Rear	Total
Without ballast	kg	1260	1720	2970
With ballast	kg	1570	1920	3490

Fuel and lubricants recommended and used in tests

Fuel
Type: AGIP DIESEL, DIN 51601;
Specific gravity at 15 °C: 0,835 kg/l;

Engine oil
- Type: AGIP DIESEL SIGMA S SAE 30;
- Viscosity: 12.5 cSt;

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

Power lift oil
- Type: AGIP ROTRA THT;
- Viscosity: 11.5 cSt;

Steering oil
- Type: AGIP ROTRA THT;
- Viscosity: 11.5 cSt;

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: 30 th Jan 1986 - 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	kW l/h
MAXIMUM POWER - 2 - HOUR TEST						
47.07	2350	1028	13.98	11.72	249	3.36
POWER AT RATED ENGINE SPEED						
47.07	2350	1028	13.98	11.72	249	3.36
STANDARD POWER TAKE-OFF SPEED (1000+/-25 Rev/min)						
46.98	2285	1000	13.72	11.50	245	3.42
PART LOADS						
i) torque corresponding to maximum power at rated engine speed						
47.07	2350	1028	13.98	11.72	249	3.36
ii) 85% of torque obtained in i)						
41.07	2411	1055	12.51	10.49	255	3.28
iii) 75% of torque defined in ii)						
31.89	2438	1067	10.09	8.46	265	3.16
iv) 50% of torque defined in ii)						
20.95	2461	1077	7.83	6.56	313	2.67
v) 25% of torque defined in ii)						
10.58	2487	1088	5.85	4.90	463	1.80
vi) unloaded						
-	2509	1098	4.12	3.46	-	-

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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	kW h/l
i) The torque corresponding to maximum power available						
46.98	2285	1000	13.72	11.50	245	3.42
ii) 85% of torque obtained at maximum power						
41.00	2347	1027	12.32	10.33	252	3.32
iii) 75% of torque defined in ii)						
31.11	2374	1039	9.95	8.15	262	3.18
iv) 50% of torque defined in ii)						
20.94	2397	1049	7.66	6.42	306	2.73
v) 25% of torque defined in ii)						
10.57	2422	1060	5.69	4.77	451	1.85
vi) unload						
-	2450	1072	3.99	3.35	-	-

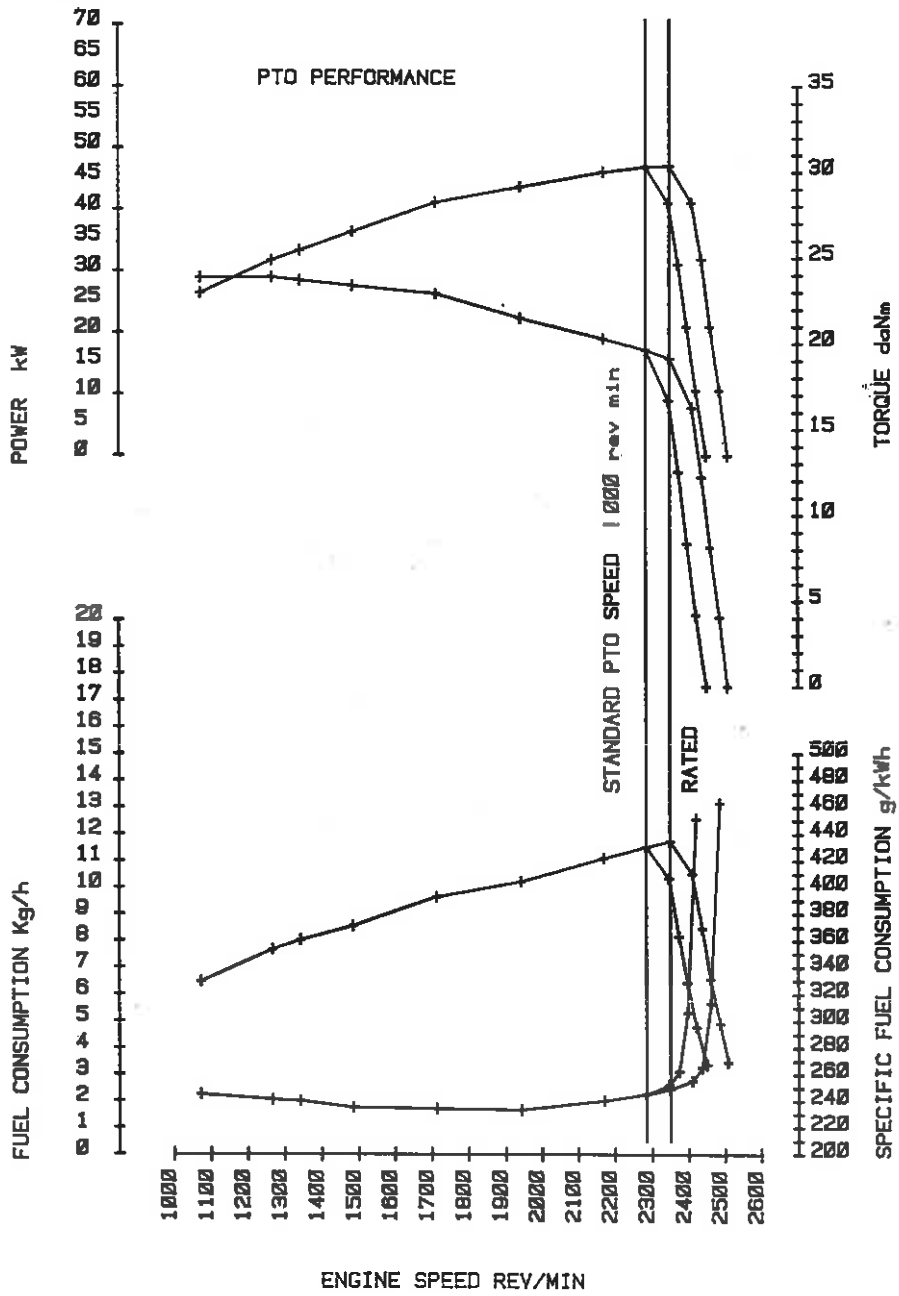
STANDARD SPECIFIC FUEL CONSUMPTION: 255/313/252/306 g/kWh

- No load maximum engine speed: 2509 rev/min
- Torque (1) at maximum power: 19.14 daNm
- Maximum torque (1) (engine speed: 1266 rev/min):23.87 daNm
- Mean atmospheric conditions : Temperature 18°C
  Pressure 985 mbar
  Relat.humidity 72%
- Maximum temperatures : Coolant 107°C
  Engine oil 125°C
  Fuel 37°C
  Engine air intake 24°C.

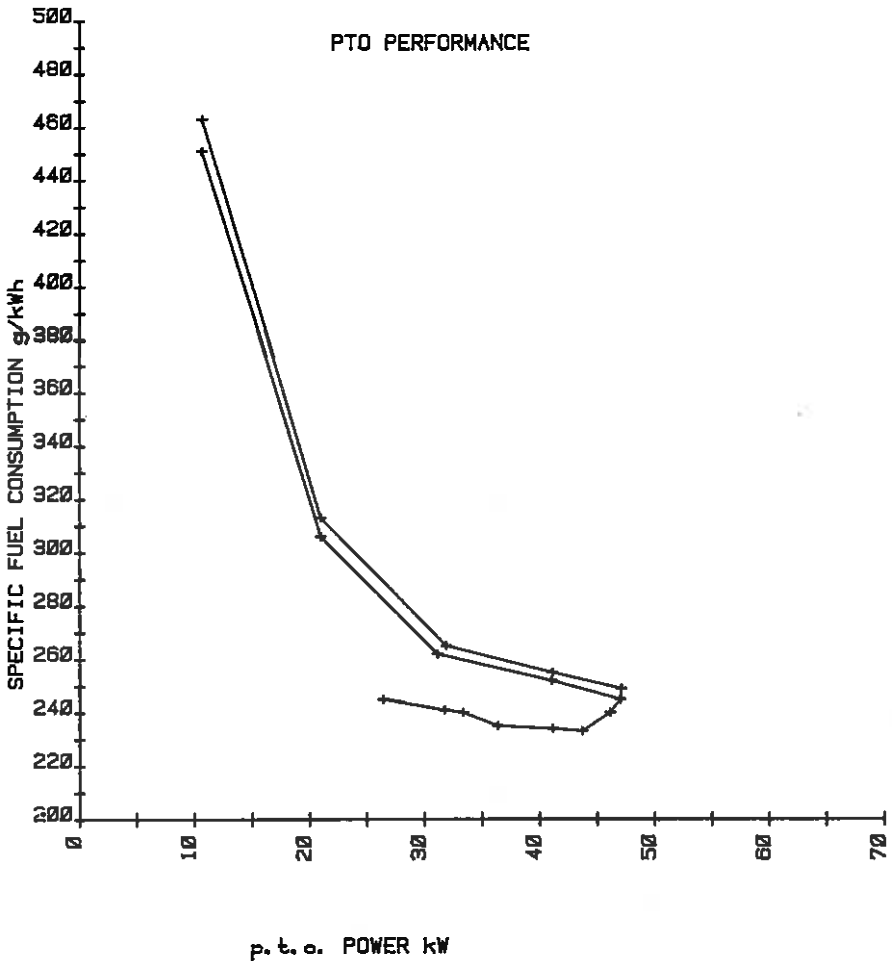
(1) The torque is the equivalent crankshaft torque.

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(2) POWER LIFT AND HYDRAULIC POWER TEST
- Date and location of tests: 06/02/1986 - ISMA Treviglio (BG)

		at hitch point	on the frame
aight of lower hitch point above ground in down position	mm	200	200
Vertical movement	mm	640	756
Maximum corrected force exerted through full range	daN	2451	2206
Corresponding pressure of hydraulic fluid	bar	164	164
Moment about rear axle	daNm	2303	3419
Maximum tilt angle of mast over range of lift	Degrees	--	11

Lifting heights relative to the horizontal lower links

mm	-305	-200	-100	0	100	200	300	335	451
Lifting forces at hitch points									
N	2451	2598	2745	2843	2941	3089	3187	2941	----
Lifting forces at test frame									
dN	2206	2451	2471	2471	2471	2451	2451	----	2353

HYDRAULIC POWER TEST
Sustained pressure with relief valve open: 183 bar;
Pump delivery rate at min pressure: 36 l/min;

Hidraulic power	kW	flow rate l/min	pressure bar	oil temp. °C
At 90% of the actual reliev valve setting	8.95	32.6	164	65
Maximum	9.03	32.5	167	65

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: 7/02/1986
- Type of track: concrete
- Type and size of tyres front: 12.4/24
  rear : 16.9/30

Height drawbar above ground : 570 mm
Tyre inflation pressure : front 1.7 bar
rear 1.3 bar

Gear	Power	Draw. pull	Speed	Eng. speed	Slip of wheel	Specific ener.cons.		Temperatures fuel	cool.eng.	temp.	Atm. cond. hum.	pres.
N.	kW	daN	km/h	rev/min	%	kWh/l	g/kWh	°C	°C	°C	°C	%	mbar
1) MAXIMUM DRAWBAR IN TESTED GEARS													
3 S	14.00	2471	2.04	2472	15.0	1.83	458	15	23	80	9	78	981
4 S	18.65	2530	2.65	2454	15.0	2.09	399	15	23	80	9	78	981
1 N	26.28	2490	3.80	2440	15.0	2.50	334	15	23	80	9	78	981
2 N	35.33	2539	5.01	2394	15.0	2.71	309	16	23	81	9	78	981
3 N	40.10	2181	6.62	2358	11.2	2.76	303	16	23	81	9	78	981
4 N	41.00	1589	9.29	2350	7.4	2.84	294	16	23	81	10	78	981
1 F	41.50	1185	12.61	2356	5.4	2.89	290	16	23	81	10	78	981
2 F	40.90	865	17.02	2356	4.3	2.81	297	16	22	81	10	78	981

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SEZIONE DI TREVIGLIO

SAME EXPLORER 70 DT "4WD" TEST N.024 22

Gear	Power	Draw. pull	Speed	Eng. speed	Slip of wheel	Specific ener.cons.	fuel	Temperatures cool.eng.		Atm. cond. 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													
1 F	41.50	1185	12.61	2356	5.4	2.89	290	16	22	81	10	78	981
ii) - 75% Of pull at maximum power													
1 F	31.60	888	12.81	2423	5.2	2.55	328	16	22	80	10	78	982
iii) - 50% of pull at maximum power													
1 F	21.38	592	13.00	2456	4.2	2.31	362	16	21	80	10	78	982
iv) - Highest gear giving the same pull as in ii) ,reduced engine speed													
2 F	31.58	888	12.80	1816	5.2	3.15	265	16	21	79	10	77	982
v) - Highest gear giving the same pull as in iii), reduced engine speed													
2 F	21.38	592	13.00	1874	3.1	2.85	294	16	20	78	11	77	982

ISTITUTO SPERIMENTALE PER
LA MECCANIZZAZIONE AGRICOLA
SEZIONE DI TREVIGLIO

SAME EXPLORER 70 DT "4WD" TEST N.024

REMARKS: no remarks

TEST ENGINEER
(ing.Giovanni SANTORO)

THE DIRECTOR OF TESTING STATION
(prof.Giuseppe COLZANI)

HEAD OF ISMA - ROMA
(prof.Alfio CAMMILLI)