Consiglio Nazionale delle Ricerche
ISTITUTO PER LA MECCANIZZAZIONE AGRICOLA
Strada delle Cacce, 73 - 10135 TORINO (Italy)

OECD Approval No. 1681/1-2 FULL CODE
Date of approval: 20th October 1997
Report No. 2191/T/1997

TEST IN ACCORDANCE WITH THE OECD FULL
CODE FOR THE OFFICIAL TESTING OF AGRICULTURAL TRACTORS

TRACTORS: Make: **NEW HOLLAND ITALIA**

Models: **FIAT L 65 DT** Approval number: 1681/1 FULL CODE
with 12 x 12 Mechanical Transmission (30 km/h version)

Models: **FORD 4835 DT** Approval number: 1681/2 FULL CODE
with 12 x 12 Mechanical Transmission (30 km/h version)

Type: 4 WD



Manufactured by: NEW HOLLAND ITALIA S.p.A. - MODENA (Italy)

Date and location of the tests: February ÷ March 1997 - TORINO (Italy)

This report has been approved by the O.E.C.D. Co-ordinating Center (CEMAGREF, France) as being in accordance with the O.E.C.D. Tractor Test Code.

PRELIMINARY REMARK

The NEW HOLLAND ITALIA FIAT L65DT (4 WD) and the NEW HOLLAND ITALIA FORD 4835DT (4 WD) tractors are technically identical in all main respects, except with regard to the following items:

- model designation;
- colour;

Therefore, tests have not been repeated, and approval number is valid for both tractor models.
All tests were carried out on the NEW HOLLAND ITALIA FORD 4835DT(4 WD) tractor equipped with safety cab.

This bulletin is based on engineering tests in accordance with O.E.C.D. Full Code (Code I).
It does not contain an evaluation of performance of the tractor on practical farm work.

The NEW HOLLAND ITALIA FIAT L65DT (4 WD) and the NEW HOLLAND ITALIA FORD 4835DT (4 WD) tractors are manufactured in following variants:

1. with 12 x 12 Mechanical Transmission (30 km/h version) - (4x3 gear units and one reverse group) and equipped with safety cab;

2. with 12 x 12 Mechanical Transmission (30 km/h version) - (4x3 gear units and one reverse group) and equipped with 2 post safety frame folding or not folding;

3. with 12 x 4 Mechanical Transmission (30 km/h version) - (4x3 forward gear units and 4x1 rear gear units) and equipped with safety cab;

4. with 12 x 4 Mechanical Transmission (30 km/h version) - (4x3 forward gear units and 4x1 rear gear units) and equipped with 2 post safety frame folding or not folding;

5. with 20 x 12 Mechanical Transmission (30 km/h version) - (4x3 gear units and one reverse group plus 4x2 gear units responsible of the 8 forward creeper gears) and equipped with safety cab; when the reverse group is engaged the 8 creeper gears are automatically forbidden reducing to 12 the number of reverse speeds;

6. with 20 x 12 Mechanical Transmission (30 km/h version) - (4x3 gear units and one reverse group plus 4x2 gear units responsible of the 8 forward creeper gears) and equipped with 2 post safety frame folding or not folding; when the reverse group is engaged the 8 creeper gears are automatically forbidden reducing to 12 the number of reverse speeds;

7. with 24 x 12 HI-LO Transmission (30 km/h version) - (4x3 gear units plus one reduction gear HI-LO and one reverse group) and equipped with safety cab; when the reverse group is engaged the position HI is automatically forbidden reducing to 12 the number of reverse speeds;

8. with 24 x 12 HI-LO Transmission (30 km/h version) - (4x3 gear units plus one reduction gear HI-LO and one reverse group) and equipped with 2 post safety frame folding or not folding; when the reverse group is engaged the position HI is automatically forbidden reducing to 12 the number of reverse speeds;

Tests have been carried out on tractor with the first variant.

In this report all performance characteristics are given corresponding to the International System of Units.

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- Tractor manufacturer's name and address:	NEW HOLLAND ITALIA Viale delle Nazioni, 55 41100 MODENA - Italy
- Location of tractor assembly:	Plant of JESI (AN) - ITALY
- Submitted for test by:	The Manufacturer
- Selected for test by:	Manufacturer with the agreement of I.M.A.
- Place of running-in:	MODENA (MO) - ITALY
- Duration of running-in:	Appr. 50 hours
- Location of test :	I.M.A. - Torino - Italy

1 SPECIFICATIONS OF TRACTOR

1.1 IDENTIFICATION

- Make/Model/Type:	NEW HOLLAND ITALIA, FORD 4835 DT (4WD), wheeled tractor, unit construction, all wheels drive tractors
- Number of driving wheels:	4
- Serial N°:	001088073
- 1st serial N°:	001044538

1.2 ENGINE

- Make/Model/Type:	NEW HOLLAND ITALIA, FIAT 8045.06R (*), water cooled, 4 stroke, Diesel engine, direct injection, naturally aspirated
- Serial N°:	291482

1.2.1 Cylinders

- Number/disposition:	4, vertical, in-line
- Bore/stroke:	100 x 115 mm
- Capacity:	3613 cm^3
- Compression ratio:	17 : 1
- Arrangement of valves:	overhead
- Cylinder liners:	dry

1.2.2 Supercharging

- Make/Model/Type:	none
- Pressure:	---

(*) The engine manufacturer is going to change the model denomination of the engine from FIAT 8045.06R to IVECO 8045.06R maintaining the same technical characteristics and test performances

1.2.3 Fuel system

- Fuel feed system:	AC CORONA fuel feed pump
- Make/Model/type of fuel filter(s):	n° 1, NEW HOLLAND make, with replaceable cartridge and n° 1 mesh filter inside the fuel feed pump (a sediment filter with replaceable cartridge placed before the fuel feed pump is given as option)
- Capacity of fuel tank:	115 dm^3 on the left side under the protective structure
- Make/Model/Type of injection pump:	BOSCH VE4/11 F 1250 L 164-2, rotary injection pump (as option, BOSCH VE4/11 F 1250 LV13763, rotary injection pump)
- Serial N°:	none
- Manufacturer's production setting of injection pump:	
- flow rate:	43.6 mm^3/stroke at rated speed and full load corresponding 13.07 dm^3/h (43±1 mm^3/stroke given by the manufacturer)
- timing:	4.0°±1° before TDC
- Make/Model/Type of injectors:	BOSCH DLLA 124 S multihole injection nozzles used with engine equipped with BOSCH VE4/11 F 1250 L 164-2, rotary injection pump (as option OMAP OLL 124 S multihole injection nozzles, CAV BDLL 124 S multihole injection nozzles, STANADYNE DLL 124 S multihole injection nozzles used with engine equipped with BOSCH VE4/11 F 1250 L 164-2, rotary injection pump or BOSCH DLLA 132 S used with engine equipped with BOSCH VE4/11 F 1250 LV13763, rotary injection pump)
- Injection pressure:	22.6 ± 1 Mpa for BOSCH DLLA 124 S, OMAP OLL 124 S, CAV BDLL 124 S and STANADYNE DLL 124 S and 26 ± 1 Mpa for BOSCH DLLA 132 S multihole injection nozzles (*)
- Make/Model/Type of carburettor:	none

1.2.4 Governor

- Make/Model/Type:	BOSCH make, centrifugal variable speed governor,mechanical type, incorporated in the fuel injection pump
- Governed range of engine speed:	from 710 to 2780 rev/min
- Rated engine speed:	2500 rev/min

1.2.5 Air cleaner

- Pre-cleaner:	none
• Make/Model/Type:	---
• Location of air intake:	---
- Main cleaner:	
• Make/Model/Type:	DONALDSON make, NEW HOLLAND ITALIA drawing n. 5157064, dry paper element filter with two replaceable cartridge elements;

(*) Although the injection pressure of the available injectors is different, the performances of the engine - tested according to the 80/1269/EEC, 88/195/EEC and 89/491/EEC - change within the tollerance given by these EEC Directives

	DONALDSON make, 1930537 type for the internal one and 1930536 type for the external one (as option DONALDSON make, NEW HOLLAND ITALIA drawing n. 5145693, dry paper element filter with two replaceable cartridge elements or DONALDSON make, NEW HOLLAND ITALIA drawing n. 8323083, dry paper element filter with two replaceable cartridge elements;)
• Location of air intake:	on front of the radiator under the bonnet cowling
- Maintenance indicator:	with the warning lamp on the dashboard

1.2.6 Lubrication system

- Type of feed pump:	forced feed by means of gear pump.
- Type of filter(s):	replaceable cartridge type, installed on the pressure line of the engine and wire mesh type, installed on the pump suction line.
- Number of filters:	1

1.2.7 Cooling System

- Type of coolant:	water
- Type of pump:	impeller pump
- Specification of fan:	propeller fan driven by engine shaft
- Number of fan blades:	4
- Fan diameter:	430 mm
- Coolant capacity:	16 dm^3 (14 dm^3 for the tractor equipped with the safety frame)
- Type of temperature control:	a temperature gauge, with display on the dashboard, alerts the operator to potential problems
- Superpressure system:	radiator cap

1.2.8 Starting system

- Make/Model/Type:	BOSCH, 4807375, electromagnetic engagement (as option, MAGNETI MARELLI, 4755109, electromagnetic engagement)
- Starter motor power rating:	3.5 kW for both type
- Cold starting aid:	LUCAS make, thermostart model with variable resistance (as option, "start-pilot" device)
- Safety device:	tractor doesn't start unless the clutch pedal is depressed

1.2.9 Electrical system

- Voltage:	12 V, negative earth
- Generator:	
• Make/Model/Type:	MAGNETI MARELLI, AA 125R, 12 V 65A, Alternator for the tractor equipped with the safety cab and MAGNETI MARELLI, AA 125R, 12 V 45A, Alternator for the tractor equipped with the safety frame
• Power:	780 W for the tractor equipped with the safety cab and 540 W for the tractor equipped with the safety frame
- Battery:	1 lead acid type
• Rating:	100 Ah at 20 hours or as option 132 Ah at 20 hours

1.2.10 Exhaust system

- Make/Model/Type:	NEW HOLLAND ITALIA, drawing n. 5169710, DGM SA 3757, interference type with internal perforated pipe (as option, NEW HOLLAND ITALIA, drawing n. 5167695, DGM SA 3758, interference type with internal perforated pipe and an air displacement device)
- Location:	on the left hand side of engine, under the bonnet cowling, with the vertical exhaust pipe above the bonnet cowling

1.3 TRANSMISSION

1.3.1 Clutch

- Make/Model/Type:	LUK, drawing n. 5179849, dual disk dry clutch, one for travelling and one for PTO engagement; the two discs are composed respectively by organic material - travelling disc - and organic material - PTO disc.
- Number of plates:	2
- Diameter of plates	305 mm
- Method of operation:	Mechanically operated by pedal, for travelling and by lever, for PTO engagement.

As option:

- Make/Model/Type:	LUK, drawing n. 5179832, independent single disc dry clutch, used only for travelling, composed by cerametallic material and one independent multiplate wet discs, used for PTO engagement composed by organic material.
- Number of plates:	1 for clutch used for travelling and 5 for clutch used for PTO engagement
- Diameter of plates	127 mm
- Method of operation:	Mechanically operated by pedal, for travelling and hydraulically operated by button, for PTO engagement.

1.3.2 Gearbox

- Make/Model/Type:	Own make, drawing n. 5170519, mechanical syncromesh speed change gears, fitted on the tested tractor;
• Arrangement:	four speeds forward with three ranges and one reverse group;
• Number of gears:	12 forward and 12 reverse
- Available options:	
- Make/Model/Type:	Own make, drawing n. 5170545, mechanical syncromesh speed change gears;
• Arrangement:	four speeds forward with three ranges and four reverse speeds with one range;
• Number of gears:	12 forward and 4 reverse
- Make/Model/Type:	Own make, drawing n. 5170535, mechanical syncromesh speed change gears.
- Arrangement:	four speeds forward with three ranges, one reduction gear (HI-LO) and one reverse group; when the reverse group is engaged the position HI is automatically forbidden

	reducing to 12 the number of reverse speeds.
- Number of gears:	24 forward and 12 reverse
- Make/Model/Type:	Own make, drawing n. 5170527, mechanical syncromesh speed change gears.
• Arrangement:	four speeds forward with five ranges - two of these are responsible of the creeper gears engagement -, and one reverse group; when the reverse group is engaged the 8 creeper gears are automatically forbidden reducing to 12 the number of reverse speeds;
• Number of gears:	20 forward and 12 reverse

1.3.3 Rear axle and final drives

- Make/Model/Type:	Own make, drawing n. 5171124, bevel gear differential and epyciclic final drives
- Differential lock	
• Make/Model/Type:	Own make, mechanical engagement
• Method of engagement:	pushing pedal
• Method of disengagement:	pushing brake pedals
As option:	
- Differential lock	
• Make/Model/Type:	Own make, electrohydraulic engagement
• Method of engagement:	by means of a button placed on the dashboard with three positions (left, middle and right); the button should be placed in the middle or right position;
• Method of disengagement:	by means of the same button used for the differential lock engagement; it may be released manually, bringing the button back to the left position or automatically, using the brakes while the button is in the middle position or pressing the lift-o-matic control when the button is in the right position.

1.3.4 Front axle and final drives

- Make/Model/Type:	Own make, drawing n. 5171140, centrally pivoted, with integral drive shaft (without universal joints) aligned with the tractor longitudinal axis; two-pinion differential centrally mounted and epyciclic final drives
- Differential lock	
• Make/Model/Type:	Own make, electrohydraulic engagement
• Method of engagement:	by means of a button placed on the dashboard with three positions (left, middle and right); the button should be placed in the middle or right position;
• Method of disengagement:	by means of the same button used for the differential lock engagement; it may be released manually, bringing the button back to the left position or automatically, using the brakes while the button is in the middle position or pressing the lift-o-matic control when the button is in the right position.

1.3.5 Total ratios and travelling speeds

NEW HOLLAND ITALIA FORD 4835 DT with 12 x 12 Mechanical Transmission
(fitted on the tested tractor)

Gear	Group	Number of engine revolutions for one revolution of the driving wheels	Nominal travelling speed (**) at rated engine speed (2500 rev/min) km/h
I	Low	362.442	1.81
II		249.372	2.63
III		172.984	3.79
IV		120.756	5.42
I	Medium	155.179	4.22
II		106.768	6.13
III		74.063	8.84
IV		51.701	12.67
I	High	65.914	9.94
II		45.351	14.44
III		31.459	20.82
IV		21.961	29.83
I	Reverse Low	369.779	1.77
II		254.420	2.58
III		176.485	3.71
IV		123.200	5.31
I	Reverse Medium	158.320	4.14
II		108.930	6.01
III		75.562	8.67
IV		52.748	12.41
I	Reverse High	67.248	9.74
II		46.269	14.16
III		32.096	20.41
IV		22.405	29.23

(**) Calculated for the rated engine speed 2500 rev/min and dynamic index ratio of 480/70 R 30 tyres: 695 mm (ISO 4251/1 - 1992).

Number of revolutions of front wheels for one revolution of rear wheels: 1.350

NEW HOLLAND ITALIA FORD 4835 DT with 12 x 4 Mechanical Transmission

Gear	Group	Number of engine revolutions for one revolution of the driving wheels	Nominal travelling speed (**) at rated engine speed (2500 rev/min) km/h
I	Low	362.442	1.81
II		249.372	2.63
III		172.984	3.79
IV		120.756	5.42
I	Medium	155.179	4.22
II		106.768	6.13
III		74.063	8.84
IV		51.701	12.67
I	High	65.914	9.94
II		45.351	14.44
III		31.459	20.82
IV		21.961	29.83
I	Reverse	139.304	4.70
II		95.846	6.83
III		66.486	9.85
IV		46.412	14.11

(**) Calculated for the rated engine speed 2500 rev/min and dynamic index ratio of 480/70 R 30 tyres: 695 mm (ISO 4251/1 - 1992).

Number of revolutions of front wheels for one revolution of rear wheels: 1.350

NEW HOLLAND ITALIA FORD 4835 DT with 24 x 12 HI-LO Transmission

Gear	Group	Number of engine revolutions for one revolution of the driving wheels	Nominal travelling speed (**) at rated engine speed (2500 rev/min) km/h
I LO		412.781	1.59
I HI		362.442	1.81
II LO		284.007	2.31
II HI	Low	249.372	2.63
III LO		197.009	3.32
III HI		172.984	3.79
IV LO		137.527	4.76
IV HI		120.756	5.42
I LO		176.731	3.71
I HI		155.179	4.22
II LO		121.597	5.39
II HI	Medium	106.768	6.13
III LO		84.349	7.77
III HI		74.063	8.84
IV LO		58.882	11.12
IV HI		51.701	11.67
I LO		75.069	8.72
I HI		65.914	9.94
II LO		51.660	12.68
II HI	High	45.361	14.44
III LO		35.828	18.28
III HI		31.459	20.82
IV LO		25.011	26.19
IV HI		21.961	29.83
I		368.637	1.78
II	Reverse	253.635	2.58
III	Low	175.941	3.72
IV		122.820	5.33
I		157.831	4.15
II	Reverse	108.593	6.03
III	Medium	75.329	8.66
IV		52.585	12.46
I		67.041	9.77
II	Reverse	46.126	14.20
III	High	31.997	20.47
IV		22.338	29.37

(**) Calculated for the rated engine speed 2500 rev/min and dynamic index ratio of 480/70 R 30 tyres: 695 mm (ISO 4251/1 - 1992).

Number of revolutions of front wheels for one revolution of rear wheels: 1.350

NEW HOLLAND ITALIA FORD 4835 DT with 20 x 12 Mechanical Transmission

Gear	Group	Number of engine revolutions for one revolution of the driving wheels	Nominal travelling speed (**) at rated engine speed (2500 rev/min) km/h
I		2001.950	0.33
II	Low	1377.410	0.48
III		955.475	0.69
IV		666.995	0.98
I		857.131	0.76
II	Medium	589.735	1.11
III	Low	409.085	1.60
IV		285.573	2.29
I		362.442	1.81
II	Medium	249.372	2.63
III		172.864	3.79
IV		120.756	5.42
I		155.179	4.22
II	Medium	106.768	6.13
III	High	74.063	8.84
IV		51.701	12.67

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Gear	Group	Number of engine revolutions for one revolution of the driving wheels	Nominal travelling speed (**) at rated engine speed (2500 rev/min) km/h
I	High	65.914	9.94
II		45.351	14.44
III		31.459	20.82
IV		21.961	29.83
I	Reverse Low	381.518	1.72
II		262.497	2.49
III		182.088	3.60
IV		127.111	5.15
I	Reverse Medium	163.346	4.01
II		112.388	5.83
III		77.961	8.40
IV		54.423	12.04
I	Reverse High	69.383	9.44
II		47.738	13.72
III		33.115	19.78
IV		23.117	28.33
(**) Calculated for the rated engine speed 2500 rev/min and dynamic index ratio of 480/70 R 30 tyres: 695 mm (ISO 4251/1 - 1992).			

Number of revolutions of front wheels for one revolution of rear wheels: 1.350

1.4 POWER TAKE OFF

1.4.1 Main power take-off

- Type: two sistems are available - fully independent mechanical or hydraulic system. The second one is fitted on the tested tractor. Both systems are equipped with ground speed.
- Method of engagement: the engagement or disengagement of the power take off is operated, in case of mechanical system, by means of a lever, mechanically driven by the 2nd plate of the main clutch, made of organic material; in case of hydraulic system, that is the one fitted on the tested tractor, by means of a knob, hydraulically acting on a multiplate wet discs clutch; in both systems a second lever at the right hand side of the seat is responsible of the choice between engine synchronized speed and ground speed. There are 3 speed ground, determined mechanically by engine drive PTO control.
- Number of shafts: 1
- Method of changing power take-off shaft ends and speeds: in the mechanical system, shaft ends may be changed removing three bolts, swopping shaft and replacing bolts; in the hydraulic system, that is the one fitted on the tested tractor, shaft ends may be changed removing a simple circlip that retains it. Speed selection by means of a lever at the right hand side of the seat.

1.4.1.1 Main power take-off

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 500/1991 type 1
- Height above ground:	680 mm
- Distance from the median plane of the tractor:	0 mm
- Distance behind rear-wheel axis:	500 mm
- PTO speed at rated engine speed:	614 rev/min
- Engine speed at standard power take-off speed:	2198 rev/min
- Ratio of rotation speeds (engine speed/p.t.o. speed):	4.0714
- Power restriction and maximum torque:	-----
- Direction of rotation (viewed from behind tractor):	clockwise

750 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 or 21, not in conformity with ISO 500/1991
- Height above ground:	680 mm
- Distance from the median plane of the tractor:	0 mm
- Distance behind rear-wheel axis:	500 mm
- PTO speed at rated engine speed:	787 rev/min
- Engine speed at standard power take-off speed:	2382 rev/min
- Ratio of rotation speeds (engine speed/p.t.o. speed):	3.176
- Power restriction and maximum torque:	-----
- Direction of rotation (viewed from behind tractor):	clockwise

1000 rev/min

- Location:	at rear of tractor, in tractor's median plane
- Diameter of power take-off shaft end:	35 mm
- Number of splines:	21, in conformity with ISO 500/1991 type 3
- Height above ground:	680 mm
- Distance from the median plane of the tractor:	0 mm
- Distance behind rear-wheel axis:	500 mm
- PTO speed at rated engine speed:	1050 rev/min
- Engine speed at standard power take-off speed:	2381 rev/min
- Ratio of rotation speeds (engine speed/p.t.o. speed):	2.381
- Power restriction and maximum torque:	-----
- Direction of rotation (viewed from behind tractor):	clockwise

1.4.1.2 **Power take-off proportional to ground speed**

540 rev/min

- Location:	at rear of tractor, in tractor's median plane
- Travelling distance for one revolution of power take-off shaft:	0.53 m
- Number of power take-off shaft revolutions for one revolution of rear wheels:	8.9
- Direction of rotation (viewed from behind tractor):	clockwise

750 rev/min

- Location:	at rear of tractor, in tractor's median plane
- Travelling distance for one revolution of power take-off shaft:	0.42 m
- Number of power take-off shaft revolutions for one revolution of rear wheels:	11.5
- Direction of rotation (viewed from behind tractor):	clockwise

1000 rev/min

- Location:	at rear of tractor, in tractor's median plane
- Travelling distance for one revolution of power take-off shaft:	0.31 m
- Number of power take-off shaft revolutions for one revolution of rear wheels:	15.2
- Power restriction and maximum torque:	-----
- Direction of rotation (viewed from behind tractor):	clockwise

1.4.2 **Front Power take-off** (available as option and not present on the tested tractor)

- Type:	independent, driven directly from the crankshaft and actuated by a multi plate hydraulic clutch which is supplied by its own hydraulic system.
- Method of engagement:	the engagement or disengagement of the front power take off is identical to that of the rear power take off with its own operating knob.
- Number of shafts:	1
- Method of changing power take-off shaft ends and speeds:	shaft ends may be changed removing a simple circlip that retains it. As there is one speed only, no methods of changing speed are available

1.5 POWER LIFT

1.5.1 Rear power lift

- Make/Model/Type:	Own make, draught, position, position float and combined draught and position control operated by two independent levers; there is a lift-o-matic device to raise and to low in a fast way the lower links.
- Type of hydraulic system:	open centre system
- Type and number of cylinders:	1, single acting, internal.
- Type of linkage lock for transport:	lift-o-matic device
- Relief valve pressure setting:	19 ± 1 MPa
- Opening pressure of anti-shock valve:	21 ± 0.5 MPa
- Opening pressure of cylinder safety valve:	none
- Lift pump type:	hydraulic NEW HOLLAND C 42 rotary pump (with a pump delivery rate of 44,5 l/min), driven by engine shaft; as option, hydraulic NEW HOLLAND C 31 rotary pump (with a pump delivery rate of 34,5 l/min), hydraulic BOSCH 0 510 725 085 or SAUER 550/1/34385 rotary pump (with a pump delivery rate of 60 l/min), driven by engine shaft. The NEW HOLLAND C 31 pump was the one mounted on the tested tractor
- Transmission between pump and engine:	mechanical
- Type and number of filters:	1, replaceable paper cartridge;
- Site of oil reservoir:	in common with transmissione and rear axle
- Type, number and location of tapping points:	3 ways distributor at rear of tractor
- Maximum volume of oil available to external cylinders:	10 dm^3

1.5.2 Front power lift

(available as option and not present on the tested tractor)

1.6 THREE POINT LINKAGE

1.6.1 Rear three point linkage

Category:	1^{st} or 2^{nd}, implement attachment with three linkage and lower links, in conformity with I.S.O. STANDARD 730/I-1994
Category adapter:	none

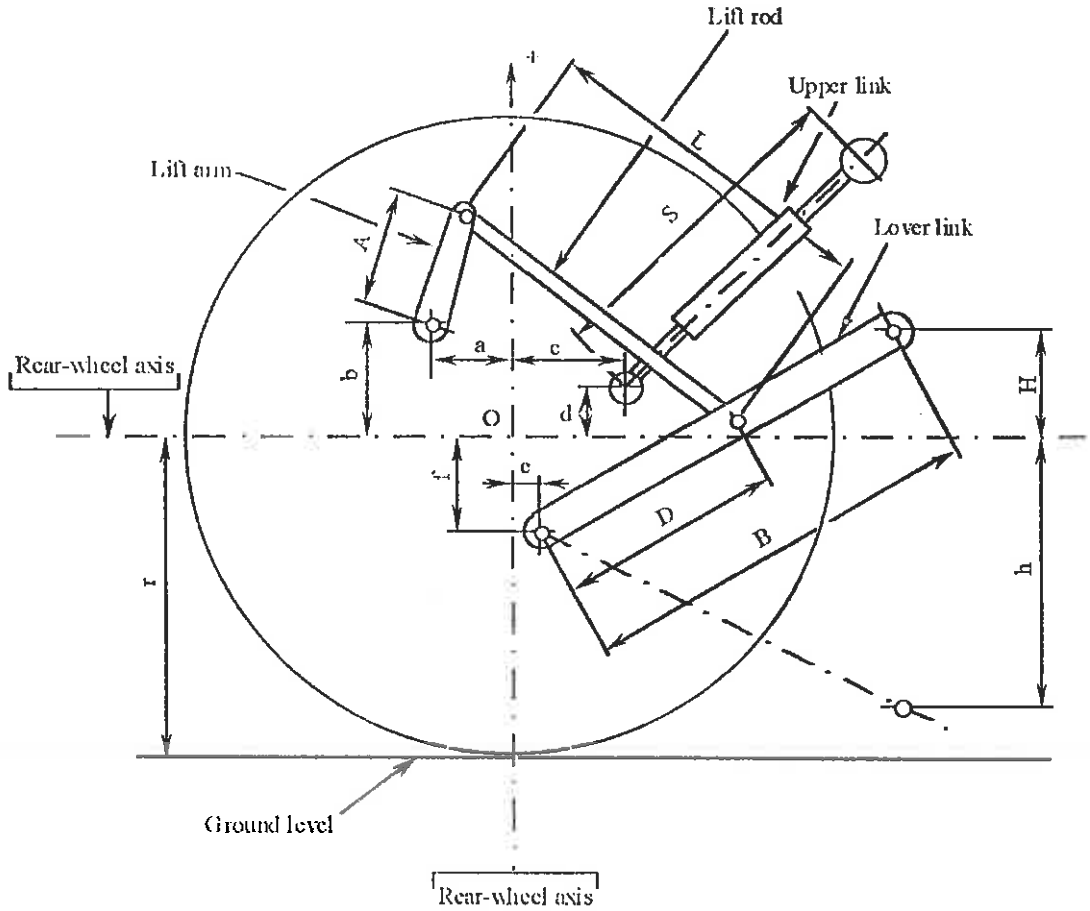


Figure 1.1

Lift test - Rear linkage geometry

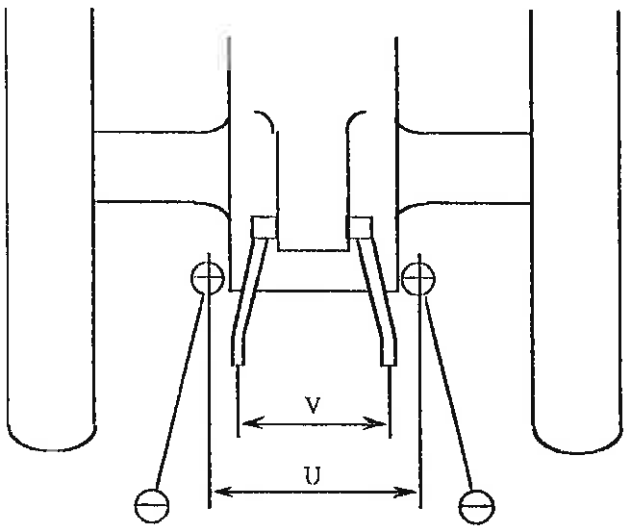


Figure 1.2

Lift test - Rear linkage geometry

		Dimension or range mm	Settings used in test mm
Length of lift arms	(A)	255	255
Length of lower links	(B)	880	880
Distance of lift arm pivot point from rear wheel axis: - horizontally	(a)	135 rearward	135rearward
- vertically	(b)	285	285
Horizontal distance between the 2 lower link points	(u)	450-475	450-475
Horizontal distance between the 2 lift arm end points	(v)	510	510
Length of upper link	(S)	from 585 to 875	620
Distance of upper link pivot point from rear wheel axis: - horizontally	(c)	400	400
- vertically	(d)	235-285	285
Distance of lower link pivot point from rear wheel axis: - horizontally	(e)	135	135
- vertically	(f)	230	230
Distance of lower link pivot points to lift rod pivot points on lower links	(D)	430	430
Length of lift rods	(L)	from 510 to 640	590
Heigth of lower hitch points relative to the rear wheel axis:			
- in low position	(h)	495	495
- in high position	(H)	180	180
Height above ground of lower hitch points when locked in transport position (*)		875	-

(*) Assuming r = 695 mm tyre dynamic radius index of ISO 4251/1-1992

Table 1.1 - **Dimension of rear linkage geometry**
(when connected to the standard frame)

1.6.2 Front three point linkage (available as option and not present on the tested tractor)

1.7 SWINGING DRAWBAR

- Type: own make, DGM-GA 1086 A 6t V0
- Height above ground
  - Minimum: 380 mm
  - Maximum: 490 mm
- Type of adjustment: overturning the drawbar to position the fork uppermost or downmost
- Distance of hitch point from rear-wheel axis, horizontally: 860 mm
- Distance of hitch point

- Distance of hitch point from PTO shaft end:	
• Vertically:	190 to 300 mm
• Horizontally:	360 mm
- Lateral adjustment (centre of clevis):	
• Right hand:	210 mm
• Left hand:	210 mm
- Distance of pivot point from rear-wheel axis, horizontally:	210 mm
- Diameter drawbar pin hole:	33 mm
- Maximum vertical permissible load:	0 kN

1.8 TRAILER HITCH

- Type:	own make, DGM-GA 1087 C 6t V1.5
- Hole diameter:	28 mm
- Height above ground:	
- min:	655 mm
- max:	935 mm
- Distance of hitch point from rear wheel axis, horizontally:	610 mm
- Distance of hitch point from power take-off shaft end:	
- vertically:	25 mm below, 255 mm above
- horizontally:	110 mm
- Maximum vertical permissible load:	14.7 kN

1.9 HOLED DRAWBAR (available as option and not present on the tested tractor)

1.10 STEERING

- Make/Model/Type:	DANFOSS make, ORBITROL OSPC 100 OR model, hydrostatic type
- Method of operation:	
- pump:	hydrostatic steering with NEW HOLLAND A25 XRP hydraulic gear pump or, as option, NEW HOLLAND A31 XRP and NEW HOLLAND A31 XRP2 hydraulic gear pump
- rams:	one double acting rams acting directly on front axle;
- Working pressure:	14.5 Mpa

1.11 BRAKES

1.11.1 Service brake

- Make/Model:	Own make, drawing n. 5172405
- Type:	oil bath disc, total 2 discs at rear (1 for wheel), mounted on differential shaft. Rear disc 259 mm dia, FRENDO ABEX HDT 303 lining material
As option:	
- Make/Model:	Own make, drawing n. 5172398
- Type:	oil bath disc, total 2 discs at rear (1 for wheel), mounted on differential shaft. Rear disc 259 mm dia, FRENDO ABEX HDT 303 lining material. The working of the

service brake produces the automatic engagement of the front wheel traction.

- Method of operation: hydraulically actuated with 2 pedals
- Trailer braking take-off: hydraulic or pneumatic traler braking systems

1.11.2 Parking brake:

- Type: fully independent of service brake, 4 oil bath sectors, mounted on the secondary shaft of the gear box, FRENDO ABEX 40 A lining material
- Method of operation: mechanical by hand lever

1.12 WHEELS

Steering wheels

- Number: 2
- Location: at front

Driving wheels

- Number: 4
- Location: 2 at front and 2 at rear

- Wheelbase: 2314 mm

- Track width adjustment:

	Minimum mm	Maximum mm	Adjustment method
Front	1300	2115	Changing the position of the rims with respect to the disc
Rear	1420	2205	Changing the position of the rims in respect to the disc

1.13 PROTECTIVE STRUCTURE

- Make/Model/Type: NEW HOLLAND make, SLTV 3 model, not tiltable cab type
- Manufacture's name and address: NEW HOLLAND ITALIA S.p.A.,
  Viale delle Nazioni, 55
  41100 MODENA (MO) - Italy
- Protective device: cab, not tiltable
- OECD approval number: CSD 1404/7 for the FIAT version and CSD 1404/17 for the FORD version
- Date of approval: 9th October 1995

As option:

- Make/Model/Type: NEW HOLLAND make, 35/L/1 model, not tiltable Rear Roll Bar type
- Manufacture's name and address: NEW HOLLAND ITALIA S.p.A.,
  Viale delle Nazioni, 55
  41100 MODENA (MO) - Italy
- Protective device: Rear Roll Bar, not tiltable
- OECD approval number: CSS 0349/7 for the FIAT version and CSS 0349/17 for the FORD version

- Date of approval:	25th October 1995
- Make/Model/Type:	NEW HOLLAND make, 35/L/A model, folding Rear Roll Bar type
- Manufacture's name and address:	NEW HOLLAND ITALIA S.p.A., Viale delle Nazioni, 55 41100 MODENA (MO) - Italy
- Protective device:	Rear Roll Bar, folding
- OECD approval number:	CSD 1406/7 for the FIAT version and CSD 1406/17 for the FORD version
- Date of approval:	9th October 1995
- Make/Model/Type:	NEW HOLLAND make, 35/L/B model, NON folding Rear Roll Bar type
- Manufacture's name and address:	NEW HOLLAND ITALIA S.p.A., Viale delle Nazioni, 55 41100 MODENA (MO) - Italy
- Protective device:	Rear Roll Bar, NON folding
- OECD approval number:	CSD 1406/27 for the FIAT version and CSD 1406/37 for the FORD version
- Date of approval:	9th October 1995
- Make/Model/Type:	NEW HOLLAND make, 35/L/3 model, not tiltable Rear Roll Bar type
- Manufacture's name and address:	NEW HOLLAND ITALIA S.p.A., Viale delle Nazioni, 55 41100 MODENA (MO) - Italy
- Protective device:	Rear Roll Bar, not tiltable
- OECD approval number:	CSD 1412/53÷54 for the FIAT version and CSD 1412/73÷74 for the FORD version
- Date of approval:	12TH February 1997
- Make/Model/Type:	NEW HOLLAND make, 35/L/C model, folding Rear Roll Bar type
- Manufacture's name and address:	NEW HOLLAND ITALIA S.p.A., Viale delle Nazioni, 55 41100 MODENA (MO) - Italy
- Protective device:	Rear Roll Bar, folding
- OECD approval number:	CSD 1411/53÷54 for the FIAT version and CSD 1411/73÷74 for the FORD version
- Date of approval:	12TH February 1997
- Make/Model/Type:	NEW HOLLAND make, 35/L/D model, NON folding Rear Roll Bar type
- Manufacture's name and address:	NEW HOLLAND ITALIA S.p.A., Viale delle Nazioni, 55 41100 MODENA (MO) - Italy
- Protective device:	Rear Roll Bar, NON folding
- OECD approval number:	CSD 1411/133÷134 for the FIAT version and CSD 1411/153÷154 for the FORD version
- Date of approval:	12TH February 1997

1.14 SEAT

1.14.1 Driver's seat

- Make/Model/Type:	GRAMMER make, DS 85H/3A model, upholstered seat with back rest, is mounted on tractor equipped with safety cab
- Type of suspension:	adjustable spring
- Type of damping:	shock absorber
- Range of adjustment:	
- longitudinal:	210 mm
- vertical:	60 mm

1.14.2 Optional driver's seat

- Make/Model/Type: GRAMMER make, LS 95H1/90A model, upholstered seat with back rest, is mounted on tractor equipped with safety cab
- Type of suspension: adjustable spring
- Type of damping: shock absorber
- Range of adjustment:
  - longitudinal: 170 mm
  - vertical: 60 mm
- Make/Model/Type: GRAMMER make, MSG 95A/20 model, upholstered seat with back rest, is mounted on tractor equipped with safety cab
- Type of suspension: adjustable spring
- Type of damping: shock absorber
- Range of adjustment:
  - longitudinal: 170 mm
  - vertical: 60 mm
- Make/Model/Type: GRAMMER make, DS 44/2H model, upholstered seat with back rest, is mounted on tractor equipped with all above mentioned Rear Roll Bar frame.
- Type of suspension: adjustable spring
- Type of damping: shock absorber
- Range of adjustment:
  - longitudinal: 150 mm
  - vertical: 60 mm
- Make/Model/Type: GRAMMER make, DS 85H/3A model, upholstered seat with back rest, is mounted on tractors equipped with Rear Roll Bar frames except for the 35/L/3 model.
- Type of suspension: adjustable spring
- Type of damping: shock absorber
- Range of adjustment:
  - longitudinal: 210 mm
  - vertical: 60 mm
- Make/Model/Type: GRAMMER make, DELUXE DS 85H/3A model, upholstered seat with back rest, is mounted on tractors equipped with the 35/L/3 model, not tiltable Rear Roll Bar.
- Type of suspension: adjustable spring
- Type of damping: shock absorber
- Range of adjustment:
  - longitudinal: 210 mm
  - vertical: 60 mm

1.14.3 Passenger seat

- Location: on left hand side of the driver's seat
- Number of places: 1

1.15 LIGHTING

	Height above ground of centre (*) mm	Size mm	Distance from outside edge of lights to median plane of tractor mm
Headlights:	1090	165 x 105	210
Sidelights	1650	110 x 35	780
Rearlights	1540	75 x 70	725
Reflectors	560	Ø 55	395

(*) with tyres: 320/70 R 24 front - 480/70 R 30 rear

2. TEST CONDITIONS

2.1 OVERALL DIMENSIONS (with tyres 320/70 R 24 front and 480/70 R 30 rear)

	Length	Width		Height at top of	
		minimum	maximum	protective structure	exhaust silencer
	mm	mm	mm	mm	mm
Ballasted	4210	2120	2520	2500	2730
Unballasted	3940	2120	2520	2500	2730

2.2 GROUND CLEARANCE

(unballasted tractor): 400 mm

- Clearance-limiting part: front axle below the central pivot point

2.3 TRACTOR MASS

Mass (with safety cab and full fuel tank):

	Ballasted		Unballasted	
	Without driver kg	With driver kg	Without driver kg	With driver kg
Front	1910	1930	1330	1350
Rear	2270	2325	2080	2135
Total	4180	4255	3410	3485

2.4 BALLAST

	Weights		Water (kg)
	Number	Total mass (kg)	
Front wheels	-	-	-
Front weight	10 + support	470	-
Rear wheels	6	300	-
Optional	1	945	-

2.5 TYRES AND TRACK WIDTH SPECIFICATIONS

	Front	Rear
Tyres:		
- dimensions	320/70 R 24	480/70 R 30
- ply rating	116 A8	141 A8
- type	radial	radial
- maximum load (tyre manufacturer')	12.26 kN	25.25 kN
- maximum load (tractor manufacturer's)	11.77 kN	17.16 kN
- inflaction pressure (tyre manufacturer's)	160 kPa	160 kPa
- dynamic radius index	515 mm	695 mm
Chosen track width:	1620 mm	1640 mm

The optional ballasts have been used in order to carry out optional drawbar tests in the condition of the following maximum admittable load on the axles:
Front axle: 2400 kg - Rear axle: 3500 kg - Total: 5200 kg

Tyre matching			
At front		At rear	
9.5 R 24	8 ply	14.9 R 30	129 A8
9.5 R 24	8 ply	16.9 R 28	126 A8
12.4 R 20	116 A8	14.9 R 30	129 A8
12.4 R 20	116 A8	16.9 R 28	126 A8
11.2 R 24	114 A8	13.6 R 36	127 A8
11.2 R 24	114 A8	12.4 R 36	124 A8
11.2 R 24	114 A8	16.9 R 30	137 A8
12.4 R 24	119 A8	13.6 R 36	127 A8
14.9 LR 20		16.9 R 30	137 A8
320/70 R 24	116 A8	480/70 R 30	141 A8
360/70 R 20		420/70 R 30	134 A8

2.6 OILS AND LUBRICANTS

2.6.1 Capacity and change interval

	Capacity dm^3	Oil change h	Filter change h
- Engine with filter	10.7	300	300
- Gear box with power lifts, rear axle, final drive and hydraulic system	55.0	1200	300
- Steering system	2.0	1200	300
- Front axle	4.5	1200	-
- Final drive	0.8	1200	-

2.6.2 Specifications (SAE, API, MIL-L, ISO)

	Recommended	Used during test
Engine oil - Type: - Viscosity: - Classification:	AMBRA SUPER GOLD 15W-40 12.50 cSt API SE - CD	As recommended
Hydraulic fluid - Type: - Viscosity: - Classification	AMBRA MULTI G 11.50 cSt API GL 4	As recommended
Front and rear axle, final drives and gear box - Type: - Viscosity: - Classification:	AMBRA MULTI G 11.50 cSt API GL 4	As recommended
Steering oil - Type: - Viscosity: - Classification:	AMBRA MULTI G 11.50 cSt API GL 4	As recommended

2.6.3 Grease: AMBRA GR9, NLGI2 international specification

- Number of lubrication points: 14

2.7 FUEL

- Type: ERG DIESEL oil, in conformity with national standard.
- Density at 15 °C: 0.830 g/cm^3

3. COMPULSORY TEST RESULTS

3.1 Main power take-off

- Date and location of tests: 3rd February 1997, I.M.A., TORINO, ITALY
- Type of dynamometer: PARASITIC CURRENTS, BORGHI & SAVERI FA 300-30 SP

Power	Speed		Fuel consumption			Specific energy
	Engine	P.t.o.	Hourly		Specific	
kW	rev/min		kg/h	l/h	g/kWh	kWh/l
3.1.1 MAXIMUM POWER - TWO HOUR TEST						
42,71	2507	1053	10,85	13,07	254	3,27
3.1.2 POWER AT RATED ENGINE SPEED						
42,71	2507	1053	10,85	13,07	254	3,27
3.1.3 STANDARD POWER TAKE OFF SPEED (1000 ± 25 rev/min)						
42,62	2381	1000	10,60	12,77	249	3,34
3.1.4 PART LOADS						
3.1.4.1 the torque corresponding to maximum power at rated engine speed						
42,71	2507	1053	10,85	13,07	254	3,27
3.1.4.2 85% of torque obtained in 3.1.4.1						
39,23	2707	1137	10,85	13,07	277	3,00
3.1.4.3 75% of torque defined in 3.1.4.2						
29,36	2712	1139	8,58	10,34	292	2,84
3.1.4.4 50% of torque defined in 3.1.4.2						
19,81	2733	1148	6,88	8,29	347	2,39
3.1.4.5 25% of torque defined in 3.1.4.2						
10,05	2774	1165	5,38	6,48	535	1,55
3.1.4.6 unloaded						
-	2781	1168	3,76	4,53	-	-
3.1.5 PART LOADS AT STANDARD POWER TAKE OFF SPEED (1000 rev/min)						
3.1.5.1 the torque corresponding to maximum power						
42,62	2381	1000	10,60	12,77	249	3,34
3.1.5.2 85% of torque obtained in 3.1.5.1						
37,75	2481	1042	9,98	12,02	264	3,14
3.1.5.3 75% of torque defined in 3.1.5.2						
28,40	2488	1045	8,01	9,65	282	2,94
3.1.5.4 50% of torque defined in 3.1.5.2						
19,37	2545	1069	6,35	7,65	328	2,53
3.1.5.5 25% of torque defined in 3.1.5.2						
9,85	2591	1088	5,15	6,20	523	1,59
3.1.5.6 unloaded						
-	2598	1091	3,75	4,52	-	-

- No load maximum engine speed: 2781 rev/min
- Torque (equivalent crankshaft) at maximum power:
  - at rated engine speed 162.7 Nm
  - at standard power take-off speed 170.9 Nm
- Maximum torque (equivalent crankshaft) 198.1 Nm
  (engine speed: 1398 rev/min)

Mean atmospheric conditions	
Temperature:	24 °C
Pressure:	99.6 kPa
Relative humidity:	75 %
Maximum temperatures	
Coolant:	85.0 °C
Engine oil:	120.0 °C
Fuel:	54.0 °C
Engine air intake:	34.0 °C

3.2 HYDRAULIC POWER AND LIFTING FORCE

- Date of tests: 08th March 1997

3.2.1 Hydraulic Power Test

- Sustained pressure with relief valve open: 19.0 MPa
- Pump delivery rate at minimum pressure: 32.0 l/min

	Flow rate l/min	Power kW	Pressure MPa
Flow rate corresponding to a hydraulic pressure equivalent to 90% of the actual relief valve pressure setting and corresponding hydraulic power	30.0	8.6	17.1
Flow rate and hydraulic pres-sure corresponding to maximum hydraulic power	30.0	8.8	17.5

- Tapping point used for test: at rear of tractor
- Temperature of hydraulic fluid: 65 °C
- Opening pressure of the unloading valve: --- MPa
- Closing pressure of the unloading valve: --- Mpa

3.2.2 POWER LIFT TEST

Rear power lift linkage settings for test - see Table 1.1 and figg. 1.1 ÷ 1.2

	at the hitch point		on the frame	
Height of lower hitch points above ground in down position	200	mm	200	mm
Vertical movement	625 (*) 675 (+)	mm mm	625 (*) 735 (+)	mm mm
Maximum corrected force exerted through full range	16.13	kN	18.90	kN
Corresponding pressure of hydraulic fluid	17.1	MPa	17.1	MPa
Moment about rear-wheel axis	16.37	kNm	30.71	kNm
Maximum tilt angle of mast from the vertical	- degrees		6 degrees	

(*) with lifting forces (+) without lifting forces

Lifting heights relative to the horizontal plane including the lower pivot points										
mm	- 265	- 200	- 100	- 50	0	50	100	200	300	360
Lifting forces										
at the hitch points kN	16.13	18.33	20.25	20.92	21.52	21.97	22.39	22.61	23.38	17.63
Corresponding pressure: 17.1 MPa										
at the frame kN	21.36	21.82	21.73	21.50	21.24	21.04	20.65	19.82	19.01	18.53
Corresponding pressure: 17.1 MPa										

3.3 DRAWBAR PERFORMANCE

Date of tests: 13th February ÷ 19th February 1997
Type of track: asphalt
Tyre size
- front: 320/70 R 24 116 A8
- rear: 480/70 R 30 141 A8

	Height of hitch above ground	Tyre inflaction pressure	
		Front	Rear
Unballasted	480 mm	160 kPa	160 kPa
Ballasted	475 mm	160 kPa	160 kPa

Gear no. and group	Driving speed km/h	Power kW	Drawbar pull daN	Engine speed rev/min	Wheel slip %	Specific fuel consumpt. g/kWh	Specific energy kWh/l	Temperature Fuel °C	Temperature Coolant °C	Temperature Engine oil °C	Atmospheric conditions Tempe rature °C	Atmospheric conditions Relative humidity %	Atmospheric conditions Pres sure kPa
3.3.1 MAXIMUM POWER IN TESTED GEARS (unballasted tractor)													
III Low	3.54	29.36	2991	2709	15.1	354	2.35	20	88	118	11.0	30	99.8
I Medium	3.83	31.78	2991	2618	14.7	336	2.47	29	87	119	11.0	30	99.8
IV Low	4.95	34.81	2530	2501	10.0	303	2.74	29	88	118	11.0	30	99.8
II Medium	5.74	36.27	2275	2500	7.7	292	2.84	28	88	116	11.0	30	99.8
III Medium	8.55	35.86	1510	2502	4.8	296	2.80	26	89	116	11.0	30	99.8
I High	9.65	36.53	1363	2501	4.3	291	2.85	26	89	114	11.0	30	99.8
4IV Medium	12.51	35.08	1010	2504	2.8	305	2.73	25	89	113	11.0	30	99.8
3.3.2 MAXIMUM POWER IN TESTED GEARS (ballasted tractor)													
I Low	1.70	16.71	3530	2728	14.9	-	-	36	88	118	5.0	80	99.3
II Low	2.46	24.14	3530	2715	15.0	363	2.29	21	87	118	5.0	80	99.3
III Low	3.39	33.24	3530	2589	14.8	327	2.54	20	88	118	5.0	80	99.3
I Medium	3.82	35.45	3344	2504	11.1	299	2.78	22	89	118	5.0	80	99.3
IV Low	5.16	36.66	2560	2502	6.4	288	2.88	21	89	117	5.0	80	99.3
II Medium	5.88	36.84	2256	2503	5.7	291	2.85	20	88	117	5.0	80	99.3

Gear no. and group	Driving speed km/h	Power kW	Drawbar pull daN	Engine speed rev/min	Wheel slip %	Specific fuel consumpt. g/kWh	Specific energy kWh/l	Temperature			Atmospheric conditions		
								Fuel °C	Coolant °C	Engine oil °C	Tempe rature °C	Relative humidity %	Pres sure kPa
III Medium	8.68	36.16	1500	2497	3.2	300	2.77	18	88	115	5.0	80	99.3
I High	9.82	36.89	1353	2498	2.6	294	2.83	18	89	116	5.0	80	99.3
IV Medium	12.60	35.01	1000	2502	2.1	305	2.72	20	89	117	5.0	80	99.3
3.3.3 FIVE-HOUR TESTS													
3.3.3.1 FIVE HOUR TEST at 75% of pull at maximum power													
III Medium	9.43	29.52	1128	2703	2.9	339	2.45	24	89	117	5.0	80	99.3
3.3.3.2 FIVE HOUR TEST at pull corresponding to 15% wheelslip - with 420 kg as additional ballast													
III Low	3.52	34.53	3530	2570	-	-	-	16	89	115	4.0	90	98.5

Oil consumption during ten hours tests 3.3.3.1 and 3.3.3.2: 70 g/h

Tests 3.3.3.2 was carried out with additional ballast; so. the not quoted figures are irrelevant

3.4 TURNING AREA AND TURNIG CIRCLE (front wheel disengaged)

Wheel equipment: front: 320/70 R 24 (116 A8) rear: 480/70 R 30 (141 A8)
Track width: front: 1620 rear: 1640

	With brakes		Without brakes	
	Right-hand m	Left-hand m	Right-hand m	Left-hand m
Radius of turning area	4.14	4.09	4.96	4.93
Radius of turning circle	3.95	3.90	4.77	4.74

3.5 LOCATION OF CENTRE OF GRAVITY

Height above ground	830 mm
Distance forward from the vertical plane containing the axis of the rear wheels	896 mm
Distance from the median plane of the tractor: to the left	0 mm

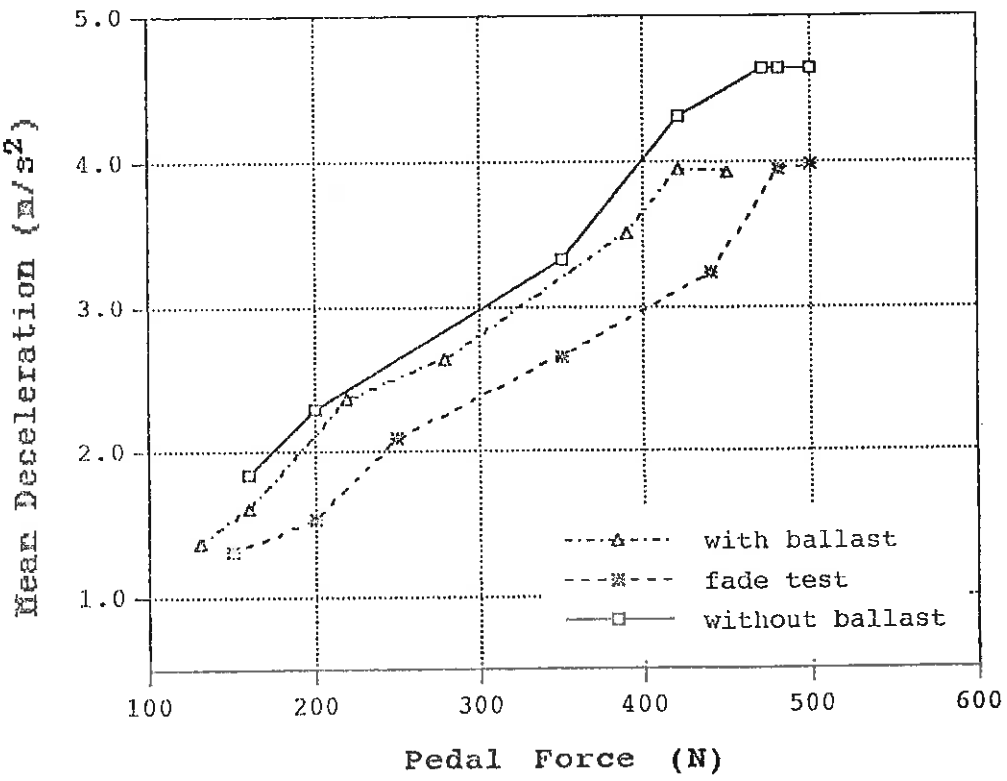
3.6 BRAKING

- Date of tests: 20th February 1997
- Type of track: asphalt
- Type of decelerometer: PEISELER
- Tractor masses during test (*)

	front axle kg	rear axle kg	total kg
Ballasted	1930	2335	4265
Unballasted	1350	2145	3495

(*) tractor carring a driver and the decelerometer (85 kg)

3.6.1 Cold service braking device test - 3.6.2 Fade test



3.6.1 Cold service braking device test

	Ballasted tractor	Unballasted tractor
Speed before application of brakes (km/h)	33.0	33.1

3.6.2 Fade test

- Maximum deviation of the tractor from its original course: none
- Abnormal vibration: none
- Brake heating method: by means of towing the tractor for 1 km at 26.5 km/h with a towing force of 4.18 kN

3.6.3 Parking braking device test

	Uphill	Downhill
Braking device control force	18.5 daN	18.6 daN

3.7 MEASUREMENT OF EXTERNAL NOISE LEVEL

- Date of tests: 25th February 1997 - I.M.A. - TORINO
- Sound level meter: make,model and type: RION make, NA 29 E model, impulse precision type
- Type of track: asphalt
- Gear number: 4 High
- Travelling speed before acceleration: 24.8 km/h
- Sound level: 84.5 dB(A)

4. REPAIRS = none

5. REMARKS = none

6. OPTIONAL TEST (on request of the manufacturer)

6.1 Drawbar performance

This test has been carried out using optional ballasts in order to reach the condition of the maximum admittable load on the axles; measurements have been done in the same gears tested during the drawbar performance shown at the point 3.3.2 of this report.

6.1 DRAWBAR PERFORMANCE

Date of tests: 14th February 1997
Type of track: asphalt
Tyre size - front: 320/70 R 24 116 A8
- rear: 480/70 R 30 141 A8

Tractor masses used during tests:

front	2320 kg
rear	2880 kg
Total	5200 kg

		Tyre inflaction pressure	
		Front	Rear
	Height of hitch above ground	160 kPa	160 kPa
Ballasted	470 mm	160 kPa	160 kPa

Gear no. and group		Driving speed km/h	Power kW	Drawbar pull daN	Engine speed rev/min	Wheel slip %	Specific fuel consumpt. g/kWh	Specific energy kWh/l	Temperature Fuel °C	Coolant °C	Engine oil °C	Atmospheric conditions Tempe rature °C	Relative humidity %	Pres sure kPa
MAXIMUM POWER IN TESTED GEARS (tractor with the maximum admittable load on the axles)														
I	Low	1.69	20.45	4364	2725	15.0	-	-	25	87	106	5.0	90	98.5
II	Low	2.45	29.64	4364	2719	15.0	351	2.36	25	88	106	5.0	90	98.5
III	Low	3.47	34.48	3579	2501	9.1	304	2.73	25	89	107	5.0	90	98.5
I	Medium	3.95	36.06	3285	2504	7.2	297	2.79	20	88	108	7.0	90	98.5
IV	Low	5.18	36.28	2520	2496	5.0	296	2.81	28	89	118	7.0	90	98.5
II	Medium	5.92	35.93	2187	2501	4.3	298	2.79	26	89	116	7.0	90	98.5
III	Medium	8.65	35.09	1461	2500	3.0	302	2.75	25	88	116	7.0	90	98.5
I	High	9.76	35.90	1324	2502	2.5	295	2.82	25	89	116	7.0	90	98.5
IV	Medium	12.57	33.88	971	2501	1.6	312	2.66	24	89	114	7.0	90	98.5

NEW HOLLAND ITALIA FORD 4835 DT

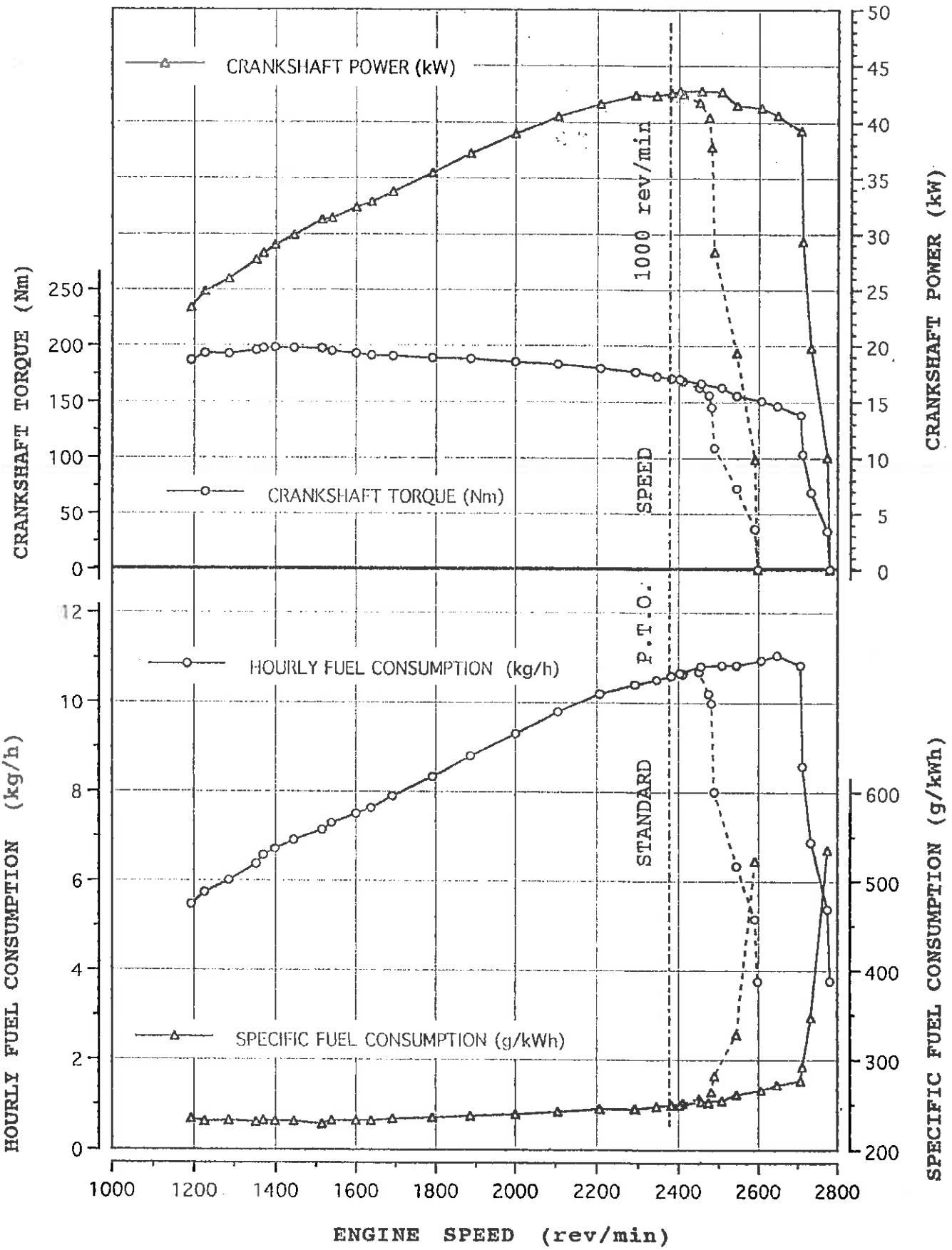


FIG. 1 - POWER TAKE-OFF TEST

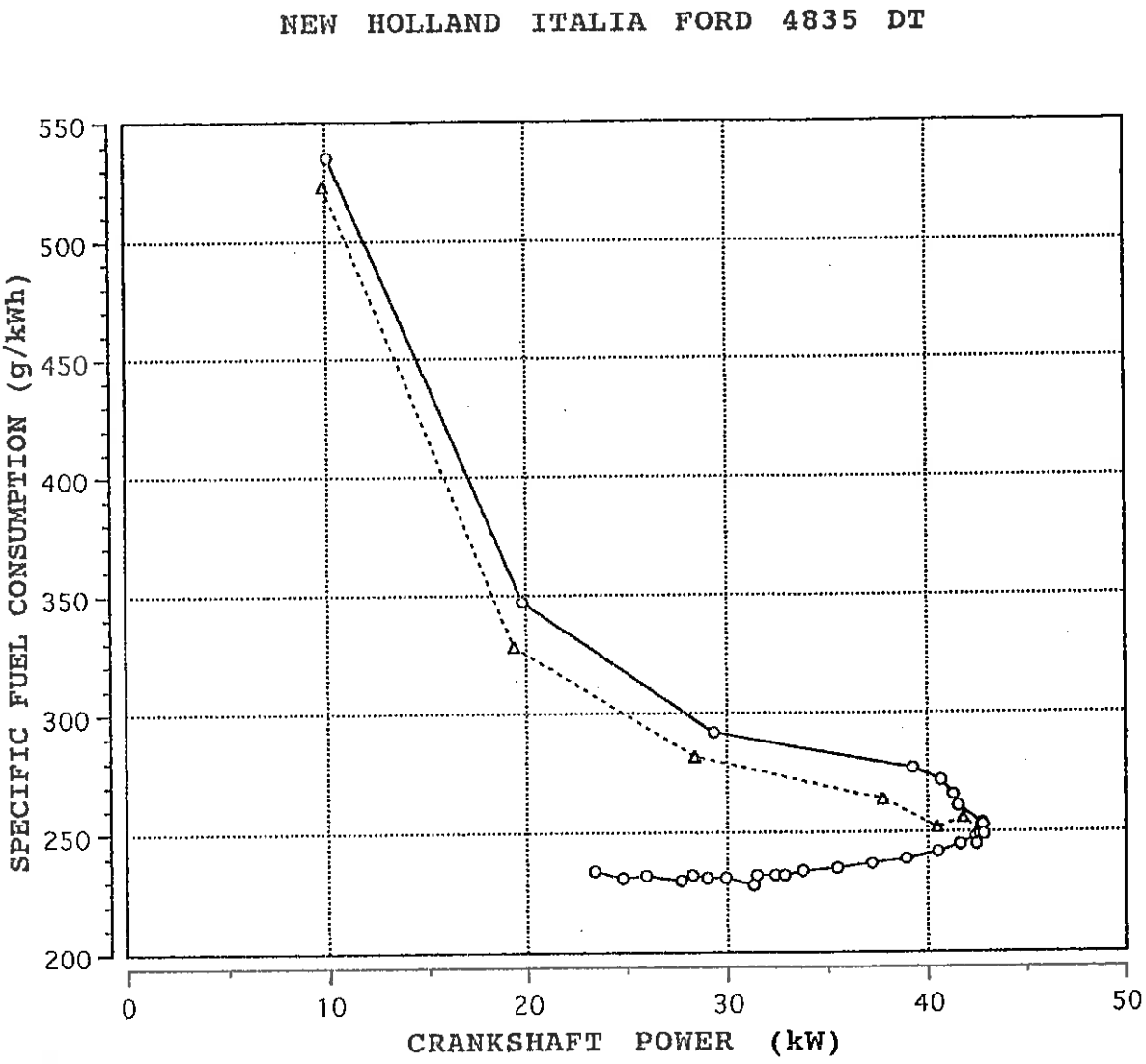


Fig. 2 - POWER TAKE-OFF TEST

The Head of the Section

R. MARENGO

The Director

P. PICCAROLO

Torino, 19th May 1997