ISTITUTO SPERIMENTALE PER
LA MECCANIZZAZIONE AGRICOLA
SEZIONE DI TREVIGLIO

O.E.C.D. no.1038
restricted code

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

# report on test of: GOLDONI 938 RS.DT (4WD)



Submitted for test by: GOLDONI S.p.A.
Migliarina di Carpi (MO)

Date of approval O.E.C.D.: 05.01.1987

Period of test: OCTOBER 1986

SEZIONE DI TREVIGLIO - BG ITALY
Via Milano, 43 - tel.0363/49603

TEST n.026

MINISTERO DELL'AGRICOLTURE E DELLE FORESTE
Direzione Generale Produzione Agricola

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All stated dimension and tests referred to tyre size 8.25/16 (4 plr) at front and 8.25/16 (4 plr) at rear, as well as to track width 1010 mm at front and 1010 mm at rear.

- Tractor manufacturer's: GOLDONI S.p.A. Migliarina di Carpi (MO);
- Submitted for test by: the manufacturer;
- Selected by: the manufacturer with the agreement of ISMA;
- Place of running in: GOLDONI - Migliarina di Carpi (MO) ;
- Duration of running in: 30 hrs for engine, 20 hrs for tractor.

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## I - SPECIFICATIONS OF TRACTOR

### TRACTOR

- Make: GOLDONI;
- Model : 938 RS.DT;
- Type: Wheeled tractor, unit constr., permanent four wheel drive;
- Serial no: B 318888;
- First serial no.: 243082

### ENGINE

- Make: LOMBARDINI;
- Model: 832;
- Type : Air cooled 4 stroke Diesel engine direct injection;
- Serial no.: 2740711.

#### Cylinders

- Number/disposition: 2 vertical in line;
- Bore/stroke: 100/105 mm;
- Capacity: 1648 cc;
- Compression ratio: 17.5/1;
- Arrangement of valves: Overhead;
- Cylinder liners: without liners.

#### Fuel system

- Fuel feed system: forced whit FISPA SUP 75 pump;
- Make, type and model of fuel filter: FIAMM FNA 32/01 with cartridge;
- Capacity of fuel tank: 16 l;

- Make, type and model of injection pump: BOSCH PFR 2K 70/5 34/2 in line injection pump;
- Serial no.: whitout number.
- Manufacturer's production setting of injection pump:
  . flow rate 47 ±2 mm3/stroke at rated speed and full load;
  . timing 27°;
- Make, type and model of injectors:BOSCH 0432.281.791 multihole injection nozzles;
- Injection pressure: 220 bar.

Governor

- Make: LOMBARDINI;
- Type: centrifugal and mechanically actuated;
- Model: 832;
- Governor range of engine speed from 840 to 3140 rev/min;
- Rated engine speed : 3000 rev/min.

Air Cleaner

- Main filter
  . Make: FISPA with cap FISPA ref. 2077.03
  . Type: oil bath;
  . Model: 2132;
  . Oil capacity: 0.5 l;
  . Location : before engine;
- Maintenance indicator : none.

Lubrication system

- Type : forced feed from gear pump;
- Total oil capacity including filter: 4.3 l;
- Oil change period : 100 hrs;
- Type of filter : FIAMM FOL 542-030;
- Number: 1;
- Filter change period: 300 hrs;
- Oil specifications (see p.13).

Cooling system

- Type and detail: air cooling with conveyor-distributor on the cylinder;
- No. of fan blades: 10;
- Diameter : 221 mm;
- Type of temperature control: none.

Starting system

- Safety device: engine start by pushing pedal clutch;
- Make: BOSCH;
- Type: JF (R) 12 V CL 2,5 - ref 0001 362076;
- Model: electromagnetic engagement;
- Power: 2.5 kW for start motor rating;
- Starting system for low temperatures: none.

Electrical equipement

- Voltage: 12 V;
- Generator
  . Make: DUCATI;
  . Type: alternator 12V 14A - ref. 43503700;
  . Power: 250 W - 92 Ah;
- Battery : 1 lead acid;
  . Capacity: 92 Ah at 20 hours.

Exhaust system

- Make: GOLDONI;
- Type: 4 chambers reflection absorption;
- Model: 921472;
- Location: on the operator's left,horizontal;
- Height of outlet above ground: 430 mm.

TRANSMISSION

Clutch: utilized for travelling and PTO of tractor
- Make: PITTERI E VIOLINI;
- Type : single disc dry clutch;
- Model: F 215.2
- Number of plates: 1;
- Disc diameter: 215 mm;
- Control system: mechanically operated by pedal
  self readjusting.

Gear box

- Make: GOLDONI;
- Type: mechanical without syncronising speed change gear with 3 speeds forward, with 2 ranges speed and 1 reverse group;
- Arrangement: mechanical, whit 2 levers;
- Model: RS.;
- No. speeds: 6 forward and 3 reverse;
- Available options: none.

## Front, Rear axles and final drive

- Make: GOLDONI;
- Type: bevel gear differential and epicyclic final drive;
- Model: RS.;
- The front and rear axles are constantly mechanically connected; hand operated differential lock, manual disengaging for front axle, automatic for rear axle.

## Transmission lubrication

- Oil capacity: 16.5 l;
- Gear box and front axle in a single circuit: 10 l;
- Rear axle: 6.5 l;
- Change period: 800 hrs;
- No filters;
- Recommended oil: see p.13.

## Total ratios and speeds

| Group | Number of engine revolutions for one revolution of the driving wheels | Nominal travelling speed at a rated engine speed of 3000 rev/min (Km/h) |
|---|---|---|
| FORWARD | | |
| 1 S | 349.729 | 1.270 |
| 2 S | 167.449 | 2.640 |
| 3 S | 85.026 | 5.210 |
| 1 F | 65.067 | 6.810 |
| 2 F | 31.157 | 14.210 |
| 3 F | 15.813 | 28.000 |
| REVERSE | | |
| 1 | 266.458 | 1.660 |
| 2 | 127.577 | 3.470 |
| 3 | 64.780 | 6.840 |

- Tyre size 8.25/16 inflaction pressure: 1.3 bar;
- Tyre radius index: 400 mm (E.T.R.T.O. norm).

S = slow - F = fast.

## POWER TAKE-OFF

### Main power take-off

- Type: not independent, at rear of tractor, in tractor's median plane, engaged or disengaged through hand lever.

### Power take-off proportional to engine speed

540 rev/min

- Location:at rear of tractor; central position;
- Diameter of power take-off shaft end: 34.8 mm;
- Number of splines: 6 in conformity with "ISO Standard 500 - 1979";
- Height above ground with tyre size 8.25/16: 460 mm;
- Distance from the median plane of the tractor 0 mm;
- Distance behind rear axle: 348 mm;
- PTO speed: 577 rev/min at rated engine speed;
- Engine speed: 2808 rev/min at standard power take-off speed 540 rpm;
- Ratio of rotation speeds (engine speed/p.t.o. speed): 5.20;
- Direction of rotation (viewed facing driving end): clockwise.

- Speed proportional at engine speed:
  . 577 and 879 rev/min at 3000 rev/min of the engine;
  . 2807 or 1843 rev/min with rotating PTO at 540 rev/min.

- Speed proportional to travelling speed:
  . one PTO revolution for 0.162 m advancement;
  . 15.13 PTO rev/min for one revolution of driving wheels.

- Direction of rotation:
  . clockwise in forward speeds;
  . anti-clockwise in reverse speeds.

### Accessory PTO

- Location:at rear of tractor central position, under the main PTO;
- Diameter of power take-off shaft end: 30mm;
- Number of splines: 6
- Distance from ground with tyre size 8.25/16: 380 mm;
- Distance from the median plane of the tractor: 0 mm;

- Distance behind rear axle : 348 mm;
- Speed proportional at engine speed:
  . 577 and 879 rev/min at 3000 rev/min of the engine;
  . 2807 or 1843 rev/min with rotating PTO at 540 rev/min.

- Speed proportional to travelling speed:
  . one PTO revolution for 0.162 m advancement;
  . 15.13 PTO rev/min for one revolution of driving wheels.

- Direction of rotation:
  . anti-clockwise in forward speeds;
  . clockwise in reverse speeds.

POWER LIFT

- Make: GOLDONI;
- Type: hydraulic system;
- Type and number of cylinders: 2 single acting cylinders;
- Type of locking for the transport: mechanical, with screwed tie rods that lock the lower links;
- Exercise valve pressure: 140 bar;
- Opening pressure of cylinder safety valve: 190 bar;
- Piston rod diameter: 54 mm;
- Stroke: 145 mm;
- Lift pump type: SALAMI 2PA/6 2D, hydraulic pump, driven directly from engine;
- Transmission between pump and engine: mechanical;
- Oil capacity: 6.8 l;
- Site of oil reservoir: power lift box;
- Position and number of additional plugs: none;
- Four litres of oil, over the standard fill-up, are available in the circuit to operate one extra attachement with no need of additional distributor;
- Type and number of filters: 1, AIAS 19024, metallic cartridge;
- Changing oil and filter: every 800-1000 working hours;
- Recommended oil (see p.13).

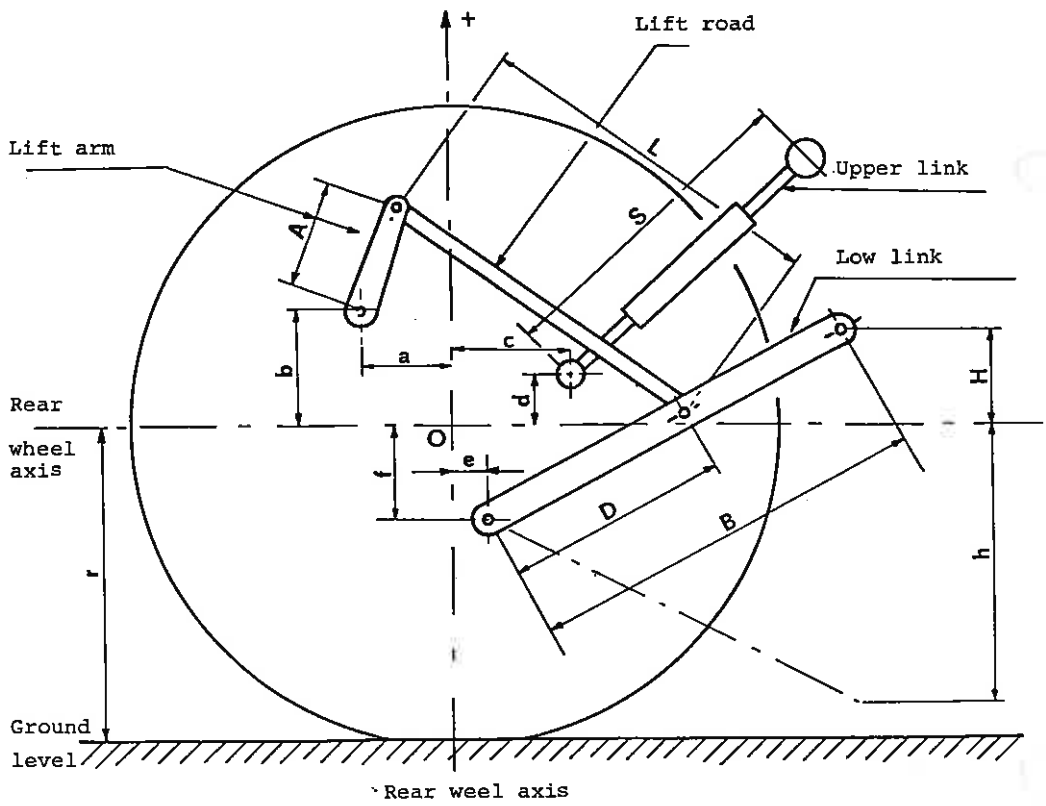
Three-point linkage

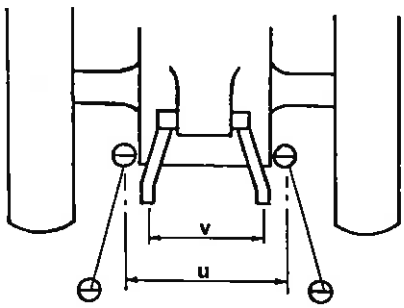
- Category: 1N, unified, in conformity with ISO/DS 730/2 rules (see arms dimensions reported on annexed scheme)

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Specify the settings for the lifting test

| | | |
|---|---|---|
| Rear tyres (size 8.25/16) radius index | (r) | 400 mm |
| Front tyre (size 8.25/16) radius index | (r') | 400 mm |
| Length of lift arms | (A) | 230 mm |
| Length of lower links | (B) | 605 mm |
| Distance of lift arm :horizontally | (a) | 80 mm |
| pivot point from rear :vertically | (b | 285 mm |
| wheel centre line | | |
| Horizontally distance between the 2 lower link points | (u) | 385 mm |
| Horizontally distance between the 2 lift arm end points | (v) | 336 mm |
| Length of upper link | (S) | 490 mm |
| Distance of upper link horizontally | (c) | 224 mm |
| pivot point from rear vertically | (d) | 266 mm |
| wheel centre line | | |
| Distance of lower link horizontally | (e) | 110 mm |
| pivot point from rear vertically | (f) | 109 mm |
| wheel centre | | |
| Distance of lower link pivot points to lift rod pivot points on lower link | (D) | 368 mm |
| Length of lift rods | (L) | 450 mm |
| Height of lower hitch points: | | |
| - in Low position | (h) | 200 mm |
| - in High position relative to the rear wheel centre line, situated 400 mm above the ground level | (H) | 200 mm |

SWINGING DRAWBAR: none.

TRAILER HITCH

- Type: GOLDONI DGM-GA 628 B;
- Height above ground: 230 mm min.- 500 mm max.
  tyre size 8.25/16;
- Distance of hitch point from rear axle axis, horizontally: 395 mm;
- Distance of hitch point from power take-off shaft end:
  . vertically: 98 mm;
  . horizontally: 48 mm;
- Maximun vertical permissible load: 1540 daN;
- Range of adjustement: 0;
- Diameter of the hitch hole: 28 mm.

HOLED DRAWBAR: none.

STEERING

- Specifications: mechanical, TRW model 250 Q ref. 15000162 steering wheel acting on the front wheels.

BRAKES

Service brake
- Make: GOLDONI;
- Model: RS.;
- Type: drum brake whit diameter 290*60 shoes acting on the rear wheels. Separate pedal control with rigid connection on mechanical transmission;
- Method of operation: mechanical acting with 2 pedals;
- Trailer braking take off: none.

Parking brake
- Type: hand operated, acting on the service brake;
- Method of operation: mechanically by hand lever.

STEERING WHEELS

- Number: 2;
- Location: at front;
- Tyres: radial;
  . Size: 8.25/16 IM 110;
  . Ply rating: 4;
  . Maximum permissible load on each tyre: 588 daN;
  . Corresponding inflation pressure: 1.3 bar;
- Track width: 1010 mm;
- Regulation: none

DRIVING WHEELS

- Number: 4;
- Location: 2 at front and 2 at rear;
- Tyres:
  . Size: 8.25/16 IM 110;
  . Ply rating: 4
  . Maximum permissible load on each tyre: 588 daN;
  . Corresponding inflation pressure: 1.3 bar;
- Track width: 1010 mm;
- Regulation: none.

WHEEL BASE: 1155 mm.

DRIVER'S SEAT

- Make: GOLDONI,
- Type of suspension: rigid, rubber mounting, adjustable back and fore of about 20 mm from mid. position;
- Type of damping: shock absorber;
- Range of adjustment, longitudinal 20 mm;
  vertical none .

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LIGHTING

Lighting system in accordance with CEE 78/933

| | Height above ground of centre with tyre (mm) (1) | Size (mm) | Distance from out side edge of trac tor to centre at 1010 mm track width (mm) |
|---|---|---|---|
| Headligths | 745 | dia. 125 | 510 |
| Front park. lights | 670 | 70*20 | 330 |
| Front finger post | 695 | 70*50 | 330 |
| Rear park. lights | 840 | 70*60 | 195 |
| Rear finger post | 840 | 90*60 | 115 |
| Stop | 840 | 70*60 | 195 |
| Reflectors | 775 | 40*50 | 165 |

(1) Tyre size: 8.25/16 4 plr

TEST CONDITIONS

- Overall dimensions with tyres:
- Front 8.25/16 - Rear 8.25/16

| | Length (mm) | Width min. (mm) | Width max. (mm) | Height max. (mm) |
|---|---|---|---|---|
| Without ballast | 2920 | 1222 | 1222 | 1205 |

Ground clearance

-Clearance-limiting part: 215 mm, below front traction gear

Track setting

- Front: 1010 mm;
- Rear: 1010 mm;

Tractor mass (without driver but with tanks full without protective structure);

| | Units | Front | Rear | Total |
|---|---|---|---|---|
| Without ballast | kg | 790 | 420 | 1210 |

Fuel and lubricants recommended and used in tests

Fuel
Type: AGIP DIESEL DIN 51601 (in accordance with the national standards)
Specific gravity at 15 °C: 0.840 g/cc;

Engine oil
- Type: ESSO TRACTOR LUBE UNIVERSAL SAE 20 W/40;
- Viscosity: 95 cSt;

Transmission oils;
- Type: ESSO gear oil GX 80/W-90;
- Viscosity: 99 cSt;

Hydraulic fluid;
- Type: ESSO NUTO H 68;
- Viscosity: 103 cSt;

Recommended grease: ESSO GP GREASE;
- Number of lubrication points: 5.

## II - TEST RESULTS

### A. COMPULSORY TESTS RESULTS

#### 1) MAIN POWER TAKE-OFF PERFORMANCE

- Date and location of test: 16 th OCT 1986 - I.S.M.A. TREVIGLIO (BG) ITALY;
- Type of dynamometer: ZOELLNER B 350 AC

| Power | Speed | | Fuel consumption | | | Specific Energy |
|---|---|---|---|---|---|---|
| | Engine | P.T.O. | Hourly | | Specific | |
| KW | rev/min | rev/min | l/h | Kg/h | g/kWh | KW l/h |
| MAXIMUM POWER - 2 - HOUR TEST | | | | | | |
| 23.20 | 3018 | 580 | 8.52 | 7.16 | 308 | 2.72 |
| POWER AT RATED ENGINE SPEED | | | | | | |
| 23.20 | 3018 | 580 | 8.52 | 7.16 | 308 | 2.72 |
| STANDARD POWER TAKE-OFF SPEED ( 540+/-10 REV/MIN ) | | | | | | |
| 23.10 | 2814 | 541 | 7.96 | 6.69 | 290 | 2.90 |
| PART LOADS | | | | | | |
| i) torque corresponding to maximum power at rated engine speed | | | | | | |
| 23.20 | 3018 | 580 | 8.52 | 7.16 | 308 | 2.72 |
| ii) 85% of torque obtained in i) | | | | | | |
| 20.00 | 3058 | 588 | 7.17 | 6.02 | 302 | 2.78 |
| iii) 75% of torque defined in ii) | | | | | | |
| 15.10 | 3075 | 591 | 5.74 | 4.83 | 320 | 2.63 |
| iv) 50% of torque defined in ii) | | | | | | |
| 10.10 | 3102 | 597 | 4.51 | 3.79 | 377 | 2.23 |
| v) 25% of torque defined in ii) | | | | | | |
| 5.10 | 3118 | 600 | 3.43 | 2.88 | 568 | 1.48 |
| vi) unloaded | | | | | | |
| --- | 3140 | 604 | 2.56 | 2.15 | --- | ---- |

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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 | | | | | | |
| 23.10 | 2814 | 541 | 7.96 | 6.69 | 290 | 2.90 |
| ii) 85% of torque obtained at maximum power | | | | | | |
| 19.70 | 2827 | 544 | 6.88 | 5.78 | 294 | 2.86 |
| iii) 75% of torque defined in ii) | | | | | | |
| 14.80 | 2847 | 548 | 5.42 | 4.56 | 308 | 2.73 |
| iv) 50% of torque defined in ii) | | | | | | |
| 10.00 | 2886 | 555 | 4.28 | 3.60 | 360 | 2.33 |
| v) 25% of torque defined in ii) | | | | | | |
| 5.00 | 2908 | 559 | 3.24 | 2.72 | 545 | 1.54 |
| vi) unload | | | | | | |
| - | 2937 | 565 | 1.92 | 1.61 | - | - |

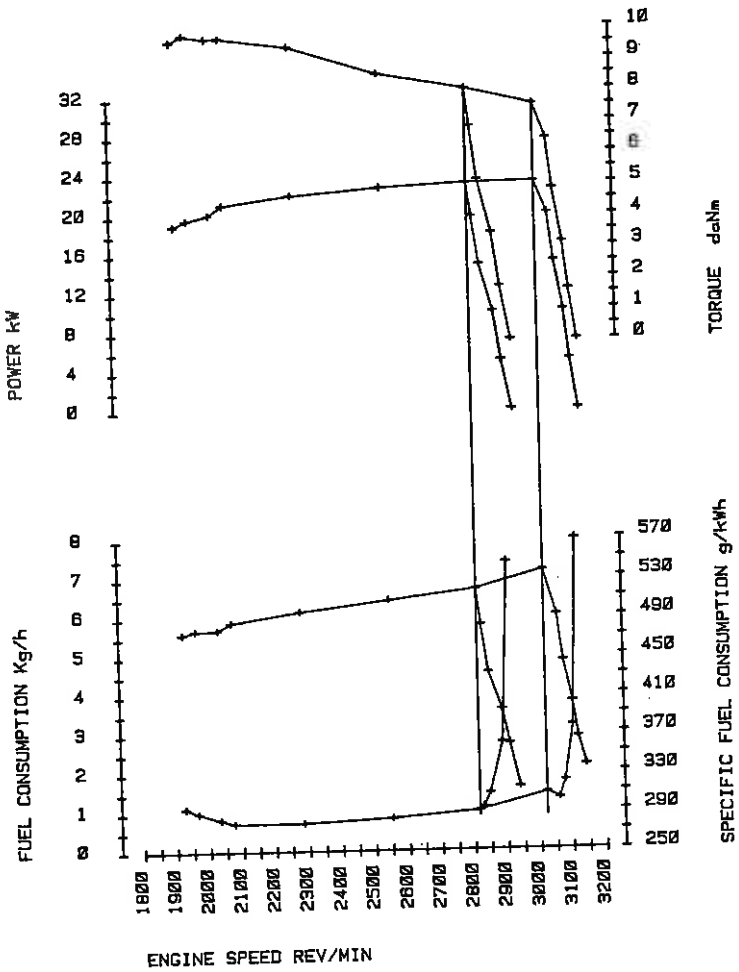
STANDARD SPECIFIC FUEL CONSUMPTION: 302/377/294/360 g/kWh

- No load maximum engine speed: 3140 rev/min;
- Torque (1) at maximum power: 7.50 daNm;
- Maximum torque (1) (engine speed: 1964 rev/min): 9.80 daNm;
- Mean atmospheric conditions : Temperature 20°C;
  Pressure 1017 mbar;
  Relat.humidity 76%;
- Maximum temperatures : Coolant 105°C;
  Engine oil 137°C;
  Fuel 19°C;
  Engine air intake 39°C.

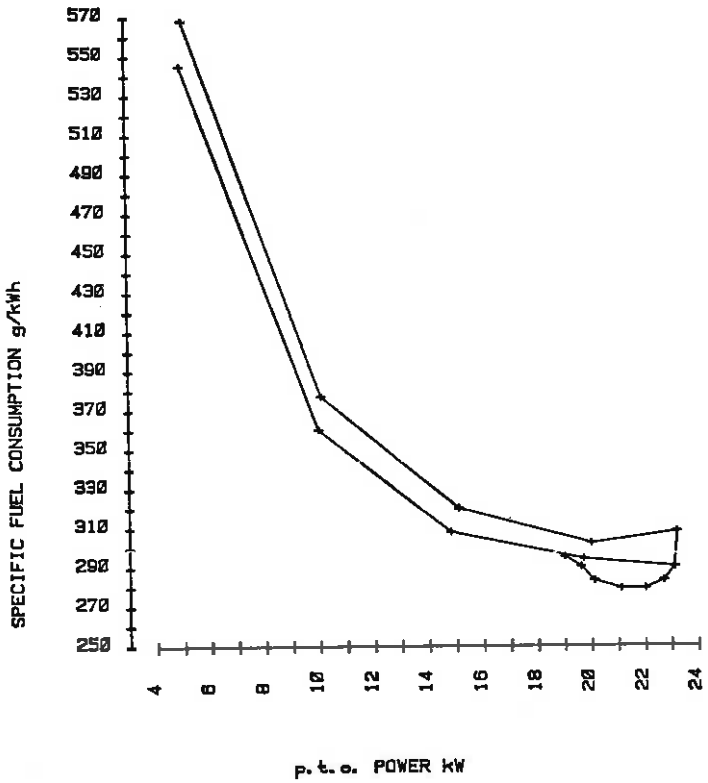
(1) The torque is the equivalent crankshaft torque.

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p.t.o. PERFORMANCE



p. t. o. PERFORMANCE



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## (2) POWER LIFT AND HYDRAULIC POWER TEST

- Date and location of tests: 27 th OCT 1986 - 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 | 400 | 415 |
| Maximum corrected force exerted through full range | daN | 980 | 650 |
| Corresponding pressure of hydraulic fluid | bar | 140 | 140 |
| Moment about rear axle | daNm | 0 | 861 |
| Maximum tilt angle of mast over range of lift | Degrees | -- | 14.7 |

Lifting heights relative to the horizontal lower links

| mm | - 90 | 0 | 100 | 200 | 300 | 310 | 325 |
|---|---|---|---|---|---|---|---|
| Lifting forces at hitch points daN | 980 | 1050 | 1190 | 1380 | 1460 | 1180 | --- |
| Lifting forces at test frame daN | 1050 | 1000 | 980 | 960 | 940 | ---- | 950 |

HYDRAULIC POWER TEST
Sustained pressure with relief valve open: 155 bar;
Pump delivery rate at minimum pressure: 16 l/min;

| Hydraulic power | kW | flow rate l/min | pressure bar | oil temp. °C |
|---|---|---|---|---|
| At 90% of the actual reliev valve setting | 3.2 | 14.0 | 140.0 | 65 |
| Maximum | 3.2 | 14.0 | 140.0 | 65 |

Tapping point used for test : directly on the hydraulic pump.
Hydraulic fluid: see p.16.

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

- Date of tests: 22/10/1986;
- Type of track: concrete;
- Type and size of tyres front: 8.25/16;
  rear : 8.15/16;

Height drawbar above ground : 340 mm;
Tyre inflation pressure : front 1.6 bar;
rear 1.6 bar;

1) MAXIMUM DRAWBAR IN TESTED GEARS

| Gear no. | Pow. kW | Draw. pull daN | Speed km/h | Engine speed rev/min | Slip of wheel % | Specific ener.cons. kWh/l | fuel g/kWh | Temperat. cool. °C | eng. °C | temp. °C | hum. °C | Atm. condit. % | pres. mbar |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1S | 2.84 | 932 | 1.1 | 3135 | 15.0 | 1.00 | 845 | 20 | 70 | 105 | 22 | 80 | 993 |
| 2S | 5.88 | 883 | 2.4 | 3088 | 15.0 | 1.23 | 680 | 20 | 71 | 105 | 22 | 80 | 993 |
| 3S | 11.03 | 883 | 4.5 | 3057 | 15.0 | 1.68 | 498 | 21 | 71 | 105 | 22 | 70 | 993 |
| 1F | 13.73 | 853 | 5.8 | 3020 | 15.0 | 1.79 | 473 | 22 | 70 | 105 | 22 | 70 | 993 |
| 2F | 19.55 | 559 | 12.6 | 3010 | 10.0 | 2.22 | 378 | 23 | 71 | 105 | 23 | 75 | 993 |
| 3F | 14.12 | 191 | 26.6 | 3000 | 4.0 | 1.62 | 517 | 23 | 71 | 105 | 23 | 80 | 993 |

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| Gear | Pow. | Draw. pull | Speed | Engine speed | Slip of wheel | Specific ener.cons. | fuel | Temperat. cool.eng. | | Atm.condit. temp. | hum. | pres |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| no. | kW | daN | km/h | rev/min | % | kWh/l | g/kWh | °C | °C | °C | % | mbar |
| TRANSMISSION AND FUEL CONSUMPTIOM CHARACTERISTICS | | | | | | | | | | | | |
| i) - Selected gear | | | | | | | | | | | | |
| 2F | 19.55 | 559 | 12.60 | 3010 | 10 | 2.22 | 378 | 23 | 71 | 105 | 23 80 | 993 |
| ii) - 75% Of pull at maximum power | | | | | | | | | | | | |
| 2F | 15.59 | 419 | 13.40 | 3050 | 8 | 2.18 | 384 | 23 | 71 | 105 | 23 80 | 993 |
| iii) - 50% of pull at maximum power | | | | | | | | | | | | |
| 2F | 10.70 | 279 | 13.80 | 3090 | 6 | 2.08 | 402 | 23 | 71 | 105 | 23 80 | 993 |

Tests in the 3F gear cannot be given because the due load was insustainable.

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GOLDONI 938 RS.DT (4WD) TEST 026 

REMARKS: none

TEST ENGINEER
(ing. Giovanni SANTORO)

THE DIRECTOR OF TESTING STATION
(prof. Giuseppe COLZANI)

HEAD OF ISMA - ROMA
(prof. Alfio CAMMILLI)

Data processing: Ing. G.Giacometti
Test Engineer assistant: P.A. G.Lamoratta