January 1931

Test 190: John Deere GP

Tractor Test Museum

University of Nebraska

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Copy of Report of Official Tractor Test No. 190

Dates of test: May 4 to May 15, 1931.
Name and model of tractor: JOHN DEERE "GENERAL PURPOSE"
Manufacturer: John Deere Tractor Company, Waterloo, Iowa.
Manufacturer's rating: NOT RATED.

One carburetor setting (93% of maximum) was used throughout this test.

<table>
<thead>
<tr>
<th>BRAKE HORSE POWER TESTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>speed :Gals. :H. P. :Lbs. @ :Cool- :In : :Cool- : : Inches of</td>
</tr>
</tbody>
</table>

OPERATING MAXIMUM LOAD TEST. ONE HOUR

| 25.35 :949 :2.670 :9.50 :0.729 :0.00 :0.00 :206 :71 :28,855 |

RATED LOAD TEST. ONE HOUR


*VARYING LOAD TEST. TWO HOURS

| 1.00 :990 :1.048 :0.95 :7.260 :-- :-- :-- :198 :70 :-- |
| 24.08 :926 :2.645 :9.10 :0.761 :-- :-- :-- :208 :70 :-- |
| 18.16 :962 :2.004 :9.06 :0.765 :-- :-- :-- :199 :72 :-- |
| 14.44 :963 :1.979 :7.68 :0.902 :0.00 :0.00 :201 :71 :28,843 |

*20 minute runs. Last line is average for two hours.

DRAWBAR HORSE POWER TESTS

| pull :per :speed :drive :Gal. :hr. :per :Gal. :Cool :Air :Inches of |
| : : % :hour :gal. :hour :hour :med. : |

RATED LOAD TEST. TEN HOURS. INTERMEDIATE GEAR.


MAXIMUM LOAD

**BRIEF SPECIFICATIONS**

**MOTOR:**
- Make: John Deere
- Serial No.: 404400
- Type: Horizontal, 2 Cylinders
- Head: L
- Mounting: Crosswise
- Bore and stroke: 6 x 6 in.
- Rated R.P.M.: 950

**Port Dia. Valves:**
- Inlet: 2 7/32" 
- Exhaust: 2 7/32"

**Belt pulley:**
- Diam.: 13 1/8 in.
- Face: 6 7/16 in.
- R.P.M.: 950

**Magneto:**
- Fairbanks-Morse
- Model: John Deere R2

**Carburetor:**
- Schebler
- Model: DLTX 5
- Size: 1 1/2"

**Governor:**
- Own
- No.: None
- Type: Centrifugal

**Air Cleaner:**
- Donaldson
- Type: Centrifugal and oiled fiber

**Lubrication:**
- Pressure Feed

**CHASSIS:**
- Type: 4 wheels, 2 drivers
- Serial No.: 404400
- Drive: Enclosed gear and chain
- Clutch: Own
- Type: Disc
- Operated by: Hand lever
- Advertised speeds, miles per hour:
  - Low: 2 1/4
  - Intermediate: 3
  - High: 4 1/3
  - Reverse: 1 3/4
- Drive wheels:
  - Diameter: 44"
  - Face: 10"
- Lugs:
  - Type: Spade
  - No. per wheel: 24
  - Size: 4" high x 3 1/2" face
- Extension rims:
  - Width: 6"
  - Lugs:
    - Spade: 12 per rim
    - Size: 4" high x 3 1/4" face
- Seat: Pressed steel
- Total weight as tested (with operator): 4925 pounds

**FUEL AND OIL:**
- Fuel: Distillate
- Weight per gallon: 6.93 pounds
- Oil:
  - S. A. E. Viscosity: No. 40
  - Total oil to motor: 2.284 gallons
  - Total drained from motor: 1.305 gallons
  - Total time motor was operated: 53 hours

The oil was drained from the crankcase once - at the end of the test.
REPAIRS AND ADJUSTMENTS

No repairs or adjustments.

REMARKS

The tests herein reported were conducted with one carburetor setting which remained unchanged throughout the tests. This condition should be recognized when comparing this test with any Nebraska test conducted prior to 1928.

The drawbar tests were run with drive wheels equipped with spade lugs and extension rims and lugs as listed on Page 2 of this report.

In the advertising literature submitted with the specifications and application for test of this tractor we find no claims and statements which, in our opinion, are unreasonable or excessive.

We, the undersigned, certify that the above is a true and correct report of official tractor test No. 190.

Carlton L. Zink
Engineer-in-charge

E. E. Brackett

C. W. Smith

E. B. Lewis
Board of Tractor Test Engineers