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.

### Brake Horse Power Tests

<table>
<thead>
<tr>
<th>H. P.</th>
<th>Crank</th>
<th>Fuel Consumption</th>
<th>Shaft</th>
<th>Water Consumption</th>
<th>Temp.</th>
<th>Deg. F.</th>
<th>Barometer</th>
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| Drawbar Horse Power Tests |

<table>
<thead>
<tr>
<th>H. P.</th>
<th>Bar</th>
<th>miles</th>
<th>Crank</th>
<th>Slip</th>
<th>Fuel Consumption</th>
<th>Water</th>
<th>Temp.</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>pull</td>
<td>per</td>
<td>speed</td>
<td>shaft</td>
<td>on</td>
<td>H. P.</td>
<td>Lbs.</td>
</tr>
<tr>
<td></td>
<td>:gals</td>
<td>per</td>
<td>:hr.</td>
<td>drive</td>
<td>Gal.</td>
<td>per</td>
<td>Gal.</td>
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<tr>
<td></td>
<td>:pounds</td>
<td>hour</td>
<td>:R.P.M.</td>
<td>:wheels</td>
<td>per</td>
<td>:H.P.</td>
<td>per</td>
</tr>
<tr>
<td></td>
<td>:%</td>
<td>:hour</td>
<td>:gal.</td>
<td>:hour</td>
<td>:med.</td>
<td>:</td>
<td></td>
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**RATED LOAD TEST. TEN HOURS. INTERMEDIATE GEAR.**

| 15.34 | 1702 | 3.38 | 950 | 2.23 | 2.426 | 6.32 | 1.096 | 0.264 | 202 | 75 | 28.750 |

**MAXIMUM LOAD TEST**

| 18.86 | 2853 | 2.48 | 950 | 5.32 | --- | Not Recorded | --- | 202 | 88 | 28.900 |
| 18.82 | 2137 | 5.30 | 949 | 4.07 | --- | | | 202 | 88 | 28.870 |
| 18.02 | 1255 | 4.75 | 950 | 1.73 | --- | | | 194 | 80 | 28.860 |

One 20 minute runs. Last line is average for two hours.
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 1/4" 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. E. Lewis
Board of Tractor Test Engineers