January 1927

Test 143: Oil Pull Model X 25-40

Tractor Museum

University of Nebraska-Lincoln, TractorMuseumArchives@unl.edu

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Copy of Report of Official Tractor Test No. 143.

Dates of test: October 6th to October 13th, 1927
Name, model and rating of tractor: Oil Pull 25-40 Model X
Serial No. Engine: X1  Serial No. Chassis: X1
Manufacturer: Advance-Rumely Company, LaPorte, Indiana
Tractor equipment used: American Bosch "DU4/2E26" Mag., Own carburetor.
Style and dimensions of wheel lugs: Spade 48 per wheel, 3.4" high x 3" wide x 3.5" base. 8" extension rims.

## BRAKE HORSE POWER TESTS

<table>
<thead>
<tr>
<th>H. P. Shaft of</th>
<th>Time</th>
<th>Fuel Consumption</th>
<th>Water consumption</th>
<th>Temp.</th>
<th>Deg. F.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crank Speed Test Kind</td>
<td>Gals.</td>
<td>H. P.</td>
<td>Cool: In</td>
<td>Total</td>
<td>Cool: Air</td>
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<tr>
<td>Dev.</td>
<td>: of</td>
<td>:</td>
<td>:</td>
<td>:</td>
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<td>R.P.M.</td>
<td>:</td>
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</table>

### RATED LOAD TEST

| 40.50 | 724 | : 60 | Kero.: 3.632 | 11.15:0.00 | : 2.90 | 2.90 | 201 | 60 | 41 | 28.42 |

### **VARYING LOAD TEST**

| 40.44 | 722.5 | : 10 | Kero.: | : | : | : | : | : | : | : | : |
| 43.15 | 720 | : 10 | " | : | : | : | : | : | : | : | : |
| 20.72 | 738.5 | : 10 | " | : | : | : | : | : | : | : | : |
| 24.66 | 733 | : 60 | " | 21.344; 10:09:0.00 | 1.18 | 1.18 | 205 | 60 | 41 | 28.38 |

### MAXIMUM LOAD TEST

| 50.26 | 725 | : 120 | Kero.: 5.768 | 8.71:0.00 | 5.43 | 5.43 | 174 | 76 | 49 | 28.49 |

### HALF LOAD TEST

| 20.655 | 736 | : 60 | Kero.: 2.111 | 9.78:0.00 | 0.27 | 0.27 | 204 | 62 | 62 | 28.55 |

* Taken in discharge line from engine.
** The last line is the average for the hour.

**REMARKS:** The kerosene used as fuel in these tests weighed 6.84 pounds per gallon.
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DRAWBAR HORSE POWER TESTS

<table>
<thead>
<tr>
<th>H. P.</th>
<th>Bar</th>
<th>Miles</th>
<th>Shaft</th>
<th>on</th>
<th>Kind</th>
<th>Am.</th>
<th>H. P.</th>
<th>Used</th>
<th>Temp.</th>
<th>Deg.</th>
<th>F.</th>
<th>Average</th>
<th>Height of</th>
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RATED LOAD TEST: TEN HOURS


MAXIMUM LOAD TEST


34.58 : 3477.5 : 3.73 : 723 : 5.64 : Kero. : -- NOT RECORDED -- : 144 : 61.5 : 39 : 28.57

*Taken in discharge line from engine.

REMARKS: The rated load and first maximum tests were made in intermediate gear, the second maximum test was made in low gear, the third maximum test was made in high gear. The distance advanced by the tractor without load on level ground for several complete revolutions of the drive wheels was taken as a basis for calculating the slippage.

OIL CONSUMPTION:

During the complete test consisting of about 34 hours running the following oil was used:

For the engine, 10-1/4 gallons of Oil Pull Extra heavy, 1-3/4 gals. to fill crankcase which was drained and refilled twice. 6-3/4 gallons were added during the test.

For the transmission, None gallons of 600 W.
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REPAIRS AND ADJUSTMENTS

No repairs or adjustments were necessary during this test. At the end of the test the tractor was in good running order and there were no indications of undue wear nor of any weakness which might require early repair.

BRIEF SPECIFICATIONS


Magneto: American Bosch "DU4/2Ed26".
Carburetor: Own make.
Governor: Own make fly-ball type.
Air cleaner: Donaldson dry centrifugal type.
Lubricator: Manzel.

CHASSIS: Four wheels, two drivers, enclosed gear drive, clutch own make twin disc. Advertised speeds: Low, 2.3 miles per hour; Intermediate, 2.9 miles per hour; High, 3.5 miles per hour; Reverse, 2.8 miles per hour.

Total weight as tested (with operator) 9440 pounds

REMARKS

In the advertising literature submitted with the specifications and application for test of this tractor, we find some claims and statements which cannot be directly compared with results of this test as reported above. It is our opinion that none of these are excessive or unreasonable.

We, the undersigned, certify that above is a true and correct report of official tractor test No. 143.

Lew Wallace
Engineer-in-Charge

Oscar W. Sjogren

E. E. Brackett

C. W. Smith
Board for Tractor Test Engineers