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Nebraska Tractor Tests

Tractor Test and Power Museum, The Lester F. Larsen

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January 1932

## Test 201: Cletrac Model 25

Nebraska Tractor Test Lab

University of Nebraska-Lincoln, [tractortestlab@unl.edu](mailto:tractortestlab@unl.edu)

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UNIVERSITY OF NEBRASKA - AGRICULTURAL ENGINEERING DEPARTMENT  
AGRICULTURAL COLLEGE, LINCOLN

Copy of Report of Official Tractor Test No. 201

Dates of test: April 9 to 30, 1932.

Name and model of tractor: CLETRAC "25"

Manufacturer: Cleveland Tractor Company, Cleveland, Ohio.

Manufacturer's rating: NOT RATED.

Highest rating permissible under the recommendations of the A.S.A.E. and

S.A.E. Tractor Rating Codes: Drawbar - 21.52 H.P. Belt - 30.35 H.P.

One carburetor setting (98.4% of maximum) was used thruout this test.

B R A K E H O R S E P O W E R T E S T S

| H. P. | :Crank :<br>:shaft : | Fuel Consumption<br>:Gals. :H. P. :Lbs. @<br>:R.P.M.: per :hrs. @:H.P.<br>: : hour :gal. :hour | : Water consumption :<br>: per hour gallons :<br>:Cool- : In :<br>:ing : fuel :Total :ing :Air :Mercury<br>: : : : :med. : : | Temp. :<br>: Deg. F. :<br>:Cool-: :Inches of<br>: : :Mercury | :Barometer |
|-------|----------------------|--|--|--|------------|
|-------|----------------------|--|--|--|------------|

OPERATING MAXIMUM LOAD TEST. ONE HOUR

33.11 : 1250 : 3.722 : 8.90 : 0.682 : 0.00 : 0.00 : 0.00 : 189 : 77 : 28.813

RATED LOAD TEST. ONE HOUR

30.27 : 1249 : 3.527 : 8.58 : 0.707 : 0.00 : 0.00 : 0.00 : 193 : 86 : 28.740

\*VARYING LOAD TEST. TWO HOURS

|       |        |         |        |          |        |        |        |       |      |          |
|-------|--------|---------|--------|----------|--------|--------|--------|-------|------|----------|
| 30.26 | : 1249 | : 3.529 | : 8.57 | : 0.708  | : --   | : --   | : --   | : 193 | : 86 | : --     |
| 0.88  | : 1452 | : 1.582 | : 0.56 | : 10.909 | : --   | : --   | : --   | : 177 | : 86 | : --     |
| 16.28 | : 1351 | : 2.580 | : 6.31 | : 0.962  | : --   | : --   | : --   | : 180 | : 86 | : --     |
| 31.92 | : 1219 | : 3.628 | : 8.80 | : 0.690  | : --   | : --   | : --   | : 193 | : 85 | : --     |
| 8.67  | : 1399 | : 2.056 | : 4.22 | : 1.439  | : --   | : --   | : --   | : 174 | : 83 | : --     |
| 23.64 | : 1307 | : 3.069 | : 7.70 | : 0.788  | : --   | : --   | : --   | : 179 | : 84 | : --     |
| 19.38 | : 1329 | : 2.741 | : 7.07 | : 0.858  | : 0.00 | : 0.00 | : 0.00 | : 183 | : 85 | : 28.730 |

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

D R A W B A R H O R S E P O W E R T E S T S

| H. P. | :Draw :Speed :Crank : Slip : Fuel Consumption :Water: Temp. :<br>:Bar :miles :shaft : on : :H.P. :Lbs. :used : : :Barometer<br>:pull :per :speed :drive :Gal. : hr. :per :Gal. :Cool-; Air:Inches of<br>:pounds:hour :R.P.M.:wheels:per : per :H.P. :per :ing : :Mercury<br>: : : : % :hour :gal. :hour :hour :med. : : |
|-------|---|
|-------|---|

RATED LOAD TEST. TEN HOURS. SECOND GEAR.

23.07 : 3091 : 2.80 : 1251 : 0.75 : 3.326 : 6.94 : 0.875 : 0.00 : 182 : 68 : 28.590

MAXIMUM LOAD TEST

|       |        |        |        |        |         |                |         |       |      |          |
|-------|--------|--------|--------|--------|---------|----------------|---------|-------|------|----------|
| 26.22 | : 5206 | : 1.89 | : 1254 | : 3.68 | : ----- | : Not Recorded | : ----- | : 186 | : 62 | : 28.710 |
| 26.79 | : 3613 | : 2.78 | : 1253 | : 1.57 | : ----- | : " "          | : ----- | : 130 | : 68 | : 28.685 |
| 23.31 | : 2191 | : 3.99 | : 1249 | : 0.77 | : ----- | : " "          | : ----- | : 183 | : 78 | : 28.640 |

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Corrected Copy of Report of Official Tractor Test No. 201

BRIEF SPECIFICATIONS

MOTOR: Make Hercules Serial No. 504164 Type 6 Cylinder, Vertical  
Head L Mounting Lengthwise  
Bore and stroke: 3 3/4" x 4 1/4" Rated R.P.M. 1250  
Port Diam. Valves: Inlet 1 1/2" Exhaust 1 3/8"  
Belt pulley: Diam. 12" Face 6 1/2" R.P.M. 937  
Magneto: Delco-Remy, Battery Ignition Model 643 V  
Carburetor: Tillotson Model Y 8 A Size 1 1/4"  
Governor: Hercules No. None Type Flyball  
Air Cleaner: Vortox Type Wet sump and wire mesh  
Lubrication: Pressure

CHASSIS: Type Tracklayer Serial No. 370 Drive Enclosed gear  
Clutch: Long Type Double disc operated by foot pedal  
Advertised speeds, miles per hour: Low 1.95  
Intermediate 2.80 High 4.00 Reverse 1.83  
Measured length of track: 16.103 feet Face 12 inches  
Lugs: Type Rolled steel cleats No. per track 29 Size 12" long, 1 5/8" high  
Extension rims: None  
Seat: Upholstered  
Total weight as tested (with operator) 7275 pounds.

FUEL AND OIL:

Fuel: Gasoline Weight per gallon 6.07 pounds  
Oil: S.A.E. Viscosity No. 50 The oil was drained once -  
Total oil to motor 1.390 gallons at the end of the test.  
Total drained from motor 0.931 gallon  
Total time motor was operated 54 hours

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REPAIRS AND ADJUSTMENTS

No repairs or adjustments.

REMARKS

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

The track and lug equipment used in the drawbar tests is the same as that described 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. 201.

Carlton L. Zink  
Engineer-in-charge

E. E. Brackett

C. W. Smith

E. B. Lewis  
Board of Tractor Test Engineers