

University of Nebraska - Lincoln

DigitalCommons@University of Nebraska - Lincoln

Nebraska Tractor Tests

Tractor Test and Power Museum, The Lester F. Larsen

January 1931

Test 196: Cletrac Model 15

Nebraska Tractor Test Lab

University of Nebraska-Lincoln, tractortestlab@unl.edu

Follow this and additional works at: <https://digitalcommons.unl.edu/tractormuseumlit>



Part of the [Energy Systems Commons](#), [History of Science, Technology, and Medicine Commons](#), [Other Mechanical Engineering Commons](#), [Physical Sciences and Mathematics Commons](#), [Science and Mathematics Education Commons](#), and the [United States History Commons](#)

Nebraska Tractor Test Lab, "Test 196: Cletrac Model 15" (1931). *Nebraska Tractor Tests*. 804.
<https://digitalcommons.unl.edu/tractormuseumlit/804>

This Article is brought to you for free and open access by the Tractor Test and Power Museum, The Lester F. Larsen at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in Nebraska Tractor Tests by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.

Copy of Report of Official Tractor Test No. 196

One carburetor setting (100% of maximum) was used thruout this test.

18.69	: 3927	: 1.79	: 1250	: 8.39	:-----: Not Recorded:-----:	199	: 92:	28.810
18.34	: 2265	: 3.04	: 1249	: 1.46	:-----: " " :-----:	205	: 96:	28.760
14.82	: 1263	: 4.40	: 1252	: 0.08	:-----: " " :-----:	204	: 94:	28.810

UNIVERSITY OF NEBRASKA - AGRICULTURAL ENGINEERING DEPARTMENT
AGRICULTURAL COLLEGE, LINCOLN

Copy of Report of Official Tractor Test No. 196

BRIEF SPECIFICATIONS

MOTOR: Make Hercules Serial No. 224447 Type Vertical
Head L Mounting Lengthwise
Bore and stroke: 4 x 4 1/2 in. Rated R.P.M. 1250
Port Dia. Valves: Inlet 1 1/2" Exhaust 1 3/8"
Belt pulley: Diam. 10 1/2 in. Face 6 1/2 in. R.P.M. 1040
Magneto: Eisemann Model G L 4
Carburetor: Tillotson Model P 1 A Size 1 1/8"
Governor: Hercules No. None Type Flyball
Air Cleaner: Pomona Vortex Type Wet sump and wire mesh
Lubrication: Pressure

CHASSIS: Type Tracklayer Serial No. 305 Drive Enclosed gear
Clutch: Borg & Beck Type Single plate - dry operated by foot
Advertised speeds, miles per hour: Low 1.95
Intermediate 3.05 High 4.37 Reverse 2.20
Tracks: Length 14.35 feet Face 9 inches
Lugs: Type Removable cleats No. per track 26 Size 2 1/4" high, 13" long
Extension rims: None
Seat: Upholstered
Total weight as tested (with operator) 5700 pounds.

FUEL AND OIL: 6.11 pounds on belt tests
Fuel: Gasoline Weight per gallon 6.09 pounds on drawbar tests
Oil: S. A. E. Viscosity #50 The oil was drained
Total oil to motor 1.467 gallons once - at the end
Total drained from motor 1.089 gallons of the test.
Total time motor was operated 48 hours

UNIVERSITY OF NEBRASKA - AGRICULTURAL ENGINEERING DEPARTMENT
AGRICULTURAL COLLEGE, LINCOLN

Copy of Report of Official Tractor Test No. 196

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.

Early in the test it was observed that the brazed connection between the exhaust pipe and the companion flange, by which it was attached to the manifold, was broken. This was not repaired.

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.

The track and lug equipment used in the drawbar tests is the same as that described on page 2 of this report.

We, the undersigned, certify that the above is a true and correct report of official tractor test No. 196.

Carlton L. Zink
Engineer-in-charge

E. E. Brackett

C. W. Smith

E. B. Lewis
Board of Tractor Test Engineers