

University of Nebraska - Lincoln

DigitalCommons@University of Nebraska - Lincoln

Nebraska Tractor Tests

Tractor Test and Power Museum, The Lester F. Larsen

January 1931

Test 198: McCormick-Deering Farmall "F-30"

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 198: McCormick-Deering Farmall "F-30"" (1931). *Nebraska Tractor Tests*. 806.

<https://digitalcommons.unl.edu/tractormuseumlit/806>

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.

Corrected Copy of Report of Official Tractor Test No. 198

One carburetor setting (97% of maximum) was used thruout this test.

24.85	: 4157	: 2.24	: 1152	: 9.70	:-----:	Not Recorded	:-----:	175	: 58:	28.720
23.93	: 2953	: 3.04	: 1151	: 6.54	:-----:	" "	:-----:	168	: 67:	28.600
23.04	: 2327	: 3.71	: 1151	: 5.23	:-----:	" "	:-----:	175	: 68:	28.600
22.00	: 1849	: 4.46	: 1145	: 4.34	:-----:	" "	:-----:	174	: 68:	28.600

UNIVERSITY OF NEBRASKA - AGRICULTURAL ENGINEERING DEPARTMENT
AGRICULTURAL COLLEGE, LINCOLN

Corrected Copy of Report of Official Tractor Test No. 198

BRIEF SPECIFICATIONS

MOTOR: Make Own Serial No. A A 518 Type 4 cylinder, vertical

Head I Mounting Lengthwise

Bore and stroke: 4 1/4" x 5" Rated R.P.M. 1150

Port Dia. Valves: Inlet 1.697" Exhaust 1.479"

Belt pulley: Diam. 14 5/8" Face 7" R.P.M. 682

Magneto: Own Model E 4 A

Carburetor: Zenith Model K 5 Size 1 1/4"

Governor: Own No. None Type Centrifugal

Air Cleaner: Own Type Oil-washed wire filter

Lubrication: Splash with circulating pump

CHASSIS: Type 4 wheels Serial No. F B 517 Drive Enclosed gear

Clutch: Own Type Single plate-dry Operated by foot

Advertised speeds, miles per hour: First 2 Second 2 3/4

Third 3 1/4 Fourth 3 3/4 Reverse 2 1/2

Drive wheels: Diameter 42" Face 12"

Lugs: Type Spade No. per wheel 24 Size 5" high x 3 1/2" face

Extension rims: Width 6" Lugs: 12 per rim Size 5" high x 3 1/2" face

Seat: Pressed steel

Total weight as tested (with operator) 5990 pounds.

FUEL AND OIL:

Fuel: Kerosene Weight per gallon 6.76 pounds on brake tests
6.78 pounds on rated drawbar tests

Oil: S.A.E. Viscosity No. 30

Total oil to motor 6.949 gallons

Total drained from motor 7.825 gallons

Total time motor was operated 66 hours

The oil was drained to the middle cock and refilled to top cock after approximately each 10 hours of operation. After 55 hours, all the oil was drained. Again at the end of the test all the oil was drained.

UNIVERSITY OF NEBRASKA - AGRICULTURAL ENGINEERING DEPARTMENT
AGRICULTURAL COLLEGE, LINCOLN

Copy of Report of Official Tractor Test No. 198

REPAIRS AND ADJUSTMENTS

The pin, which holds the splined end of the steering rod in the splined sleeve, sheared off twice, once during the limber up run and again during the rated load drawbar test. Each time the pin was replaced by another.

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 drive wheels were 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. 198.

Carlton L. Zink
Engineer-in-charge

E. E. Brackett

C. W. Smith

E. B. Lewis

Board of Tractor Test Engineers