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Nebraska Tractor Tests

Tractor Test and Power Museum, The Lester F. Larsen

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January 1928

## Test 154: Advance-Rumely "Do All"

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. 154

BRIEF SPECIFICATIONS

MOTOR: Make Waukesha Serial No. 136821 Type 4 cylinder vertical  
Head "L" Mounting Lengthwise  
Bore and stroke: 3 $\frac{1}{8}$  x 4 $\frac{1}{8}$  in. Rated R.P.M. 1400  
Port. Dia. Valves: Inlet 1 3/16" Exhaust 1 $\frac{1}{4}$ "  
Belt pulley: Diam. 10 in. Face 5 $\frac{1}{2}$ " in. R.P.M. 1400  
Magneto: Eisemann Model "GV4"  
Carburetor: Stromberg Model "MI" Size 1"  
Governor: Waukesha No. \_\_\_\_\_ Type Flyball  
Air Cleaner: Donaldson-Simplex Type Aux. Twister and Oil Fiber  
Lubrication: Pressure & Splash

CHASSIS: Type 4 "Wheels Serial No. D674 Drive Enclosed Gear  
Clutch: Twin Disc Type Drv Plate operated by Hand  
Advertised speeds, miles per hour: Low 2.625  
Intermediate None High 3.75 Reverse 2.375  
Drive wheels: Diameter 42" Face 7"  
Lugs: Type Spade No. per wheel 24 Size 2 $\frac{1}{2}$ "x1 5/8"x5 $\frac{3}{4}$ "  
Extension rims: Width 4" Seat Pressed Steel  
Total weight as tested (with operator) 3702 pounds.

FUEL AND OIL

Fuel: Gasoline Weight per gallon 6.20  
Oil: Oil Pull Medium To fill crankcase One Gallon  
Additional amount used during test Two Quarts  
Total number of hours of test 40

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REPAIRS AND ADJUSTMENTS

On the rated load and maximum load drawbar tests, it was necessary to improvise a method of locking the shifting lever in place to prevent the gears slipping out of mesh under load.

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.

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.

Since this tractor was submitted without a rating, the loads for the rated brake and drawbar tests were determined by the provisions of the American Society of Agricultural Engineers and the Society of Automotive Engineers tractor rating code.

We, the undersigned, certify that above is a true and correct report of official tractor test No. 154.

Lew Wallace

Engineer-in-charge

Oscar W. Sjogren

E. E. Brackett

C. W. Smith

Board of Tractor Test Engineers.