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January 1936

Test 261: Cletrac Model E

Nebraska Tractor Test Lab

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UNIVERSITY OF NEBRASKA - AGRICULTURAL ENGINEERING DEPARTMENT
 AGRICULTURAL COLLEGE, LINCOLN

Copy of Report of Official Tractor Test No. 261

BRIEF SPECIFICATIONS

MOTOR: Make Hercules Serial No. 235102 Type 4 cylinder, vertical
 Head L Mounting Crankshaft lengthwise
 Bore and stroke: 4" x 4 1/2" Rated R. P. M. 1300
 Port Diam. Valves: Inlet 1 1/2" Exhaust 1 3/8"
 Belt pulley: Diam. 10 1/2" Face 8 1/2" R. P. M. 1000
 Magneto American Bosch Model MJB4A101
 Carburetor Tillotson Model P-1-B Size 1 1/8"
 Governor Hercules No. -- Type Centrifugal
 Air Cleaner Vortex Type Oil-washed, wire-filter
 Lubrication Pressure

CHASSIS: Type Tracklayer Serial No. 1A110 Drive Enclosed gear
 Clutch Long Type Two-plate, dry Operated by Foot pedal
 Advertised speeds, miles per hour: First 2.125 Second 2.75
 Third 4 Reverse 1.625
 Measured length of track 15.3907 feet Face 13"
 Lugs: Type Removable rolled steel cleats No. per track 29
 Size 13" long x 1 3/4" high
 Seat Pressed steel
 Total weight as tested (with operator) 6100 pounds.

FUEL AND OIL:

Fuel Gasoline (68-70 Octane) Weight per gallon 6.14 pounds.
 Oil S.A.E. Viscosity No. 30
 Total oil to motor 2.114 gallons
 Total drained from motor 1.392 gallons
 Total time motor was operated 59 hours

The oil was drained
 once - at the end
 of the test.

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AGRICULTURAL COLLEGE, LINCOLNCopy of Report of Official Tractor Test No. 261REPAIRS AND ADJUSTMENTS

No repairs or adjustments.

REMARKS

All results shown on page 1 of this report were determined from observed data and without allowances, additions, or deductions. Tests B and F were made with carburetor set for 100% maximum horsepower and these figures were used in determining the ratings recommended by the A.S.A.E. and S.A.E. tractor rating codes. Tests C, D, E, G and H were made with an operating setting of the carburetor (selected by the manufacturer) of 98.4% of maximum horsepower.

Observed maximum horsepower (tests B & F) Drawbar 20.47 Belt 28.76

Sea Level (calculated) maximum horsepower Drawbar 22.11 Belt 30.51
(Based on 60° F. and 29.92" Hg)Highest permissible horsepower ratings Drawbar 16.58 Belt 25.93
(As recommended by A.S.A.E. and S.A.E.
codes)

We, the undersigned, certify that the above is a true and correct report of official tractor test No. 261.

Carlton L. Zink
Engineer-in-charge

E. E. Brackett

C. W. Smith

L. W. Hurlbut
Board of Tractor Test Engineers