January 1936

Test 263: Cletrac Model FD

Tractor Museum
University of Nebraska-Lincoln, TractorMuseumArchives@unl.edu

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Copy of Report of Official Tractor Test No. 263

Dates of test: June 15 to July 17, 1936.
Name and model of tractor: CLETRAC FD
Manufacturer: Cleveland Tractor Company, Cleveland, Ohio.
Manufacturer's rating: NOT RATED.

### BRAKE HORSE POWER TESTS

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

### DRAW BAR HORSE POWER TESTS

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**TESTS F AND G MAXIMUM LOAD.**

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**TEST H RATED LOAD, TEN HOURS.** Second GEAR.

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UNIVERSITY OF NEBRASKA - AGRICULTURAL ENGINEERING DEPARTMENT
AGRICULTURAL COLLEGE, LINCOLN

Corrected Copy of Report of Official Tractor Test No. 263

BRIEF SPECIFICATIONS

MOTOR: Make Hercules Serial No. H860340 Type 6 cylinder, vertical diesel
Head I Mounting Crankshaft lengthwise
Bore and stroke 5" x 6" Rated R.P.M. 1300
Port Diam. Valves: Inlet 2 3/8" Exhaust 1 5/8"
Belt pulley: Diam. 24 1/2" Face 15" R.P.M. 535
Fuel system American Bosch Model APE6B80 E300S91 No. 14801
Governor Hercules No. Type Centrifugal
Air Cleaner Vortox Type Intake deflector and oil-washed, wire-filter
Lubrication Pressure

CHASSIS: Type Tracklayer Serial No. 6364 Drive Enclosed gear
Clutch Long Type Two-plate, dry Operated by Foot pedal
Advertised speeds, miles per hour: First 1.75 Second 2.75
Third 4.25 Reverse 2.125
Measured length of track 23.144 feet Face 20"
Lugs Removable cast steel cleats No. per track 28
Size 3" high x 20" long
Seat Upholstered
Total weight as tested (with operator) 27,370 pounds.

FUEL AND OIL:

Fuel Dieseline Weight per gallon 6.97 pounds.
Oil S.A.E. Viscosity No. 30
Total oil to motor 5,397 gallons The oil was drained once - at the end of the test.
Total drained from motor 5,048 gallons
Total time motor was operated 46 hours
REPAIRS AND ADJUSTMENTS

During the belt tests, the fuel line to #6 cylinder cracked. This line was replaced with a new one.

REMARKS

All results shown on page 1 of this report were determined from observed data and without allowances, additions or deductions. In tests B and F, the 100% maximum horsepower was determined using the fuel pump adjustment as set and sealed by the manufacturer. 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 the same setting.

Observed maximum horsepower (tests B & F) Drawbar 83.75 Belt 100.58

Sea level (calculated) maximum horsepower Drawbar 91.04 Belt 107.52
(Based on 60° F. and 29.92" Hg)

Highest permissible horsepower ratings Drawbar 68.28 Belt 91.39
(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. 263.

Carlton L. Zink
Engineer-in-charge

E. E. Brackett

C. W. Smith

L. W. Hurlbut
Board of Tractor Test Engineers