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January 1928

Test 149: Cletrac Model 40 40-55

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. 149

Dates of test: April 24 to May 10, 1928

Name, model and rating of tractor: Cletrac "40" 40 - 55

Manufacturer: Cleveland Tractor Co., Cleveland, Ohio.

B R A K E H O R S E P O W E R T E S T S

H. P.	:Crank :shaft :speed :R.P.M. :	:Fuel Consumption :Gals. :per :hour	:H. P. :hrs. @ :gal.	:Lbs. @ :H.P. :hour	:Water consumption: :per hour gallons :Cool-:In :ing :fuel :Total:ing : : : :med.	:Temp. : Deg. F. :Cool- : :Air :mercury : : :	:Barometer :Inches of :
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OPERATING MAXIMUM LOAD TEST. ONE HOUR (98.5% OF MAXIMUM LOAD)

63.00	: 1579	: 8.447	: 7.46	: 0.829	: 0.0	: 0.0	: 0.0	: 174	: 67	: 28.77
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RATED LOAD TEST. ONE HOUR

55.24	: 1577	: 7.816	: 7.07	: 0.874	: 0.0	: 0.0	: 0.0	: 178	: 67	: 28.77
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VARYING LOAD TEST. TWO HOURS

55.11	: 1573	: 7.718	: 7.14	: 0.866	: 0.0	: 0.0	: 0.0	: 178	: 67	:
1.02	: 1724	: 3.612	: 0.28	: 21.882	: 0.0	: 0.0	: 0.0	: 163	: 65.5	:
29.38	: 1570	: 5.078	: 5.79	: 1.068	: 0.0	: 0.0	: 0.0	: 166	: 65	:
55.45	: 1565	: 7.252	: 7.65	: 0.808	: 0.0	: 0.0	: 0.0	: 176	: 64	:
14.96	: 1696	: 4.252	: 0.52	: 1.757	: 0.0	: 0.0	: 0.0	: 169	: 62	:
42.58	: 1616	: 5.874	: 7.25	: 0.853	: 0.0	: 0.0	: 0.0	: 170	: 61.5	:
33.80	: 1636	: 5.631	: 6.00	: 1.030	: 0.0	: 0.0	: 0.0	: 170	: 64	: 28.90

D R A W B A R H O R S E P O W E R T E S T S

H. P.	:Draw :Bar :pull :pounds :	:Speed: :miles: :per :hour	:Crank :shaft :speed :R.P.M. :	:Slip :on :drive :wheels : % :hour	:Fuel Consumption :Gal. :per :hr. :per :gal. :hour	:Water: :used :Gal. :per :H.P. :per :hour	:Temp. : :Cool-:Air :ing :mercury : : :	:Barometer :Inches of :
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RATED LOAD TEST. TEN HOURS Intermediate Gear.

40.74	: 4317	: 3.54	: 1571	: 0.62	: 6.231	: 6.54	: 0.944	: 0.05	: 193	: 88	: 28.52
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MAXIMUM LOAD TEST

51.67	: 5437	: 3.56	: 1573	: 0.74	: ----	: Not Recorded	:	: 186	: 75	: 28.76
55.51	: 9725	: 2.14	: 1561	: 2.03	:	: " "	:	: 190	: 78	: 28.68
39.61	: 2637	: 5.63	: 1573	: 0.07	:	: " "	:	: 186	: 82	: 28.69

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BRIEF SPECIFICATIONS

MOTOR: Make Wisconsin Serial No. 1393 Type 6 cyl. vertical
Head "I" Mounting Lengthwise
Bore and stroke: 4-1/2 x 5 in. Rated R.P.M. 1575
Port Dia. Valves: Inlet 1-15/16" Exhaust 1-15/16"
Belt pulley: Diam. 15 in. Face 13 in. R.P.M. 851
Battery Ign.
Magneto: Delco-Remy Model _____
Carburetor Whcelor-Schobler Model "AT" Size 1-3/4"
Governor: Taco No. _____ Type Fly-ball
Air Cleaner: Pomona Type Oil spray
Lubrication: Pressure & Splash

CHASSIS: Type Crawler Serial No. 150 Drive Enclosed gear
Clutch: Borg & Beck Type Single Plate Operated by Foot
Advertised speeds, miles per hour: Low 2.00
Intermediate 3.50 High 5.50 Reverse 3.00
Track length 20 ft. Pace 14"
Lugs: Type Angles No. per Track 24 Size 1-1/2" high
Extension rims: Width None Seat Upholstered
Total weight as tested (with Operator) 12,038 pounds.

FUEL AND OIL

Fuel: Gasoline Weight per gallon 6.17
Oil: Mobiloil BB To fill crankcase 5 gallon
Additional amount used during test 3-3/4 gallons
Total number of hours of test 37

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REPAIRS AND ADJUSTMENTS The battery cable insulation became defective on the rated drawbar test causing the ignition to become shorted, the insulation was repaired with tape.

Two grease cups on the clutch throw out collar sheared off during the limber up run.

Oil was leaking from the clutch shaft in front of the transmission, also from the crankcase where the front drawbar is connected, at the end of the test.

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.

The results of this test indicate that the rating of this tractor does not exceed the provisions of the tractor rating code of the American Society of Agricultural Engineers and the Society of Automotive Engineers.

We, the undersigned, certify that above is a true and correct report of official tractor test No. 149

Lew Wallace
Engineer-in-charge

Oscar W. Sjogren

E. E. Brackett

C. W. Smith
Board of Tractor Test Engineers