

University of Nebraska - Lincoln

DigitalCommons@University of Nebraska - Lincoln

Nebraska Tractor Tests

Tractor Test and Power Museum, The Lester F. Larsen

January 1936

Test 258: Cletrac Model CG

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 258: Cletrac Model CG" (1936). *Nebraska Tractor Tests*. 861.
<https://digitalcommons.unl.edu/tractormuseumlit/861>

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.

Dates of test: June 16 to 24, 1936.
Name and model of tractor: CLETRAC CG
Manufacturer: Cleveland Tractor Company, Cleveland, Ohio.
Manufacturer's rating: NOT RATED.

H. P.	: Crank :	Fuel Consumption	:	Water Consumption	:	Temp.	:
	: shaft :		:	per hour gallons	:	Deg. F.	: Barometer
	: speed :	Gals. : H. P. : Lbs. per :	Cool- :	In :	:	Cool- :	Inches of
	: R.P.M. :	per : hrs. per :	H. P. :	ing : fuel :	Total :	ing : Air :	Mercury
	: : hour :	gal. : hour :	:	:	:	: med. :	:

51.13 : 1449 : 6.782 : 7.54 : 0.814 : 0.000 : 0.000 : 0.000 : 171 : 74 : 28.840

50.07 : 1451 : 6.160 : 8.13 : 0.755 : 0.000 : 0.000 : 0.000 : 191 : 93 : 28.780

46.03 : 1448 : 5.933 : 7.76: 0.791 : 0.000 : 0.000: 0.000 : 191 : 97 : 28.750

45.96	: 1454	: 5.941	: 7.74	: 0.794	:	---	:	---	:	---	:	189	:	96	:	---
1.35	: 1580	: 2.976	: 0.45	: 13.533	:	---	:	---	:	---	:	157	:	96	:	---
24.24	: 1535	: 4.549	: 5.33	: 1.152	:	---	:	---	:	---	:	173	:	96	:	---
48.67	: 1410	: 6.015	: 8.09	: 0.759	:	---	:	---	:	---	:	192	:	96	:	---
12.47	: 1544	: 3.630	: 3.44	: 1.787	:	---	:	---	:	---	:	163	:	94	:	---
35.87	: 1500	: 5.213	: 6.88	: 0.892	:	---	:	---	:	---	:	179	:	93	:	---
28.09	: 1504	: 4.721	: 5.95	: 1.032	:	0.000	:	0.000	:	0.000	:	174	:	95	:	28.680

DRAWBAR HORSE POWER TESTS

	:	Draw	:	Speed	:	Crank	:	Slip	:	Fuel Consumption	:	Water:	Temp.	:
H. P.	:	bar	:	miles	:	shaft	:	on	:	H. P.	:	Lbs. used	:	: Barometer
	:	pull	:	per	:	speed	:	drive	:	Gal.: hour	:	per Gal.:	Cool-:	: Inches of
	:	pounds:	:	hour	:	R.P.M.:	:	wheels:	:	per per	:	H.P.:	per ing	: Air:Mercury
	:	:	:	:	:	%	:	hour:	:	gal. :	:	hour:	hour med.	:

39.82 : 4901 : 3.05 : 1451 : 1.07:-----Not Recorded-----: 190 : 97: 28.760

40.94	: 8387	: 1.83	: 1449	: 2.38	:-----Not Recorded-----	: 190	: 93	: 28.775
38.76	: 4783	: 3.04	: 1449	: 1.17	:-----" "	: 190	: 96	: 28.775
33.47	: 2831	: 4.43	: 1453	: 0.95	:-----" "	: 190	: 90	: 28.775

32.31 : 3986 : 3.04 : 1451 : 1.28:5.742: 5.63 :1.091 :0.023: 169 : 81: 28.995

UNIVERSITY OF NEBRASKA - AGRICULTURAL ENGINEERING DEPARTMENT
 AGRICULTURAL COLLEGE, LINCOLN

Copy of Report of Official Tractor Test No. 258

BRIEF SPECIFICATIONS

MOTOR: Make Hercules Serial No. 601601 Type 6 cylinder, vertical
 Head L Mounting Crankshaft lengthwise
 Bore and stroke: 4 1/4" x 4 1/2" Rated R. P. M. 1450
 Port Diam. Valves: Inlet 1 5/8" Exhaust 1 1/2"
 Belt pulley: Diam. 13" Face 11" R. P. M. 942 1/2
 Magneto American Bosch Model MJB6A101
 Carburetor Tillotson Model Y-7-B Size 1 1/2"
 Governor Hercules No. -- Type Centrifugal
 Air Cleaner Vortex Type Oil-washed, wire-filter
 Lubrication Pressure

CHASSIS: Type Tracklayer Serial No. 2926 Drive Enclosed gear
 Clutch Long Type Two-plate, dry Operated by Foot pedal
 Advertised speeds, miles per hour: First 1.87 Second 3.05
 Third 4.44 Reverse 2.28
 Measured length of track 18.8590 feet Face 15"
 Lugs: Type Removable rolled steel cleats No. per track 31
 Size 15" long x 2 1/4" high
 Seat Upholstered
 Total weight as tested (with operator), 11,800 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 2.195 gallons
 Total drained from motor 1.245 gallons
 Total time motor was operated 47 hours

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

UNIVERSITY OF NEBRASKA - AGRICULTURAL ENGINEERING DEPARTMENT
AGRICULTURAL COLLEGE, LINCOLNCopy of Report of Official Tractor Test No. 258REPAIRS 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 97.9% of maximum horsepower.

Observed maximum horsepower (tests B & F) Drawbar 39.82 Belt 51.13

Sea level (calculated) maximum horsepower Drawbar 42.89 Belt 53.74
(Based on 60° F. and 29.92" Hg.)Highest permissible horsepower ratings Drawbar 32.17 Belt 45.68
(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. 258.

Carlton L. Zink
Engineer-in-charge

E. E. Brackett

C. W. Smith

L. W. Hurlbut
Board of Tractor Test Engineers