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January 1937

## Test 289: Cletrac Model CG

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. 289

Date of test: September 16 to October 4, 1937.  
 Name and model of tractor: CLETRAC CG  
 Manufacturer: Cleveland Tractor Company, Cleveland, Ohio.  
 Manufacturer's rating: NOT RATED.

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			Water Consumption per hour gallons			Temp. Deg. F.		Barometer Inches of Mercury
		Gal. per hr.	H. P. hr. per gal.	Lb. per H. P. hr.	Cool- ing	In fuel	Total	Cool- ing med.	Air	

TESTS B AND C - MAXIMUM LOAD - TWO HOURS

52.60	1565	6.563	8.02	0.768	0.000	0.000	0.000	172	78	28.910
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\*TEST D - ONE HOUR

47.28	1565	6.222	7.60	0.810	0.000	0.000	0.000	166	76	28.985
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TEST E - VARYING LOAD - TWO HOURS (20 minute runs: last line average)

47.28	1563	6.238	7.58	0.812	--	--	--	164	75	--
1.00	1679	3.260	0.31	20.070	--	--	--	131	76	--
24.54	1621	4.820	5.09	1.209	--	--	--	145	75	--
52.04	1471	6.404	8.13	0.757	--	--	--	170	77	--
12.63	1656	4.050	3.12	1.974	--	--	--	138	74	--
35.71	1579	5.546	6.44	0.956	--	--	--	154	75	--
28.87	1595	5.053	5.71	1.077	0.000	0.000	0.000	150	75	29.020

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 hr.	Crank shaft speed R.P.M.	Slip on drive wheels %	Fuel Consumption			Water used Gal. per hr.	Temp. Deg. F.		Barometer Inches of Mercury
					Gal. per hr.	H. P. per gal.	Lb. per H.P. hr.		Cool- ing med.	Air	

TESTS F AND G - MAXIMUM LOAD

45.79	9385	1.83	1567	2.29	-----	Not Recorded	-----	175	80	28.810
43.23	5367	3.02	1563	1.42	-----	"	"	181	75	28.925
36.24	3092	4.40	1566	1.40	-----	"	"	189	83	28.850

\*TEST H - TEN HOURS - Second GEAR

33.98	4198	3.04	1564	0.99	5.151	6.60	0.933	0.011	171	76	28.665
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\*Formerly called RATED LOAD; see REMARKS 4, page 3.

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FUEL, OIL, AND TIME

Fuel Gasoline (70 octane) Weight per gallon 6.16 pounds  
Oil: S.A.E. No. 30 To motor 2.517 Gal. Drained from motor 1.354 gal.  
Total time motor was operated 49 hours

BRIEF SPECIFICATIONS

Advertised speeds, miles per hour: First 1.87 Second 3.05  
Third 4.44 Reverse 2.28  
Belt pulley: Diameter 13" Face 11" R.P.M. 1017  
foot  
Clutch: Make Long Type Double-plate, dry Operated by pedal  
Seat Upholstered  
Total weight as tested (with operator) 11700 pounds

MOTOR:

Make Hercules Serial No. 601791 Type 6 cylinder, vertical  
Head L Mounting Crankshaft lengthwise Lubrication Pressure  
Bore and stroke 4 1/4" x 4 1/2" Rated R.P.M. 1565  
Port diameter valves: Inlet 1.625" Exhaust 1.5"  
Ignition: Type Battery Make Delco Remy Distributor Model 642 W  
Carburetor: Make Tillotson Model Y-7-B Size 1 1/2"  
Governor: Make Hercules Type Centrifugal  
Air cleaner: Make Vortex Type Oil-washed, wire filter and A-C pre-  
cleaner

CHASSIS:

Type Tracklayer Serial No. 5M 110 Drive Enclosed gear  
Tread width 48" Measured length of track 18.836'  
Cleats: Type removable rolled steel No. per track 31  
Size 2 3/8" high x 15" long

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REPAIRS AND ADJUSTMENTS

No repairs or adjustments.

REMARKS

1. 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 data from these tests were used in determining the horsepower to be developed in tests D and H, respectively. Tests C, D, E, G, and H were made with the same setting.
2. Observed maximum horsepower (tests F & B)      Drawbar 43.23    Belt 52.60
3. Sea level (calculated) maximum horsepower      Drawbar 45.35    Belt 55.39  
(based on 60° F. and 29.92" Hg.)
4. Seventy-five per cent of calculated maximum Drawbar 34.01    Belt 47.03  
drawbar horsepower and eighty-five per cent  
of calculated maximum belt horsepower (form-  
erly A.S.A.E. and S.A.E. ratings).

We, the undersigned, certify that the above is a true and correct report of official tractor test No. 289.

Carlton L. Zink,  
Engineer-in-charge

E. E. Brackett

Ivan D. Wood

L. W. Hurlbut  
Board of Tractor Test Engineers