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Nebraska Tractor Tests

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January 1920

## Test 028: Beeman Model "C"

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  
 UNIVERSITY FARM, LINCOLN

Report of Official Tractor Test No. 26

Dates of test June 22, to July 2, 1920  
 Name, model and rating of tractor Peeman Model G.  
 Serial No. Engine G. 204582 Serial No. Chassis \_\_\_\_\_  
 Manufacturer Peeman Tractor Co., Minneapolis, Minn.  
 Tractor equipment used Heinze Ax-1 Magneto; Kingston Model Y Carburetor.  
 Style and dimensions of wheel lugs Angle 2-1/2" high

**Brake Horse Power Tests**

Horse Power Developed	Crank Shaft Speed R. P. M.	Length of Test Min.	Fuel Consumption			Water Consumption Gallons per Hour			Temperature *Cooling Fluid Deg. F.	Temperature of Atmosphere Deg. F.	Humidity %	Barometric Pressure Inches Mercury
			Kind of Fuel	Amount Used per Hour Gallons	Horse Power Hours per Gallon	In Radiator	In Fuel Mixture	Total				
RATED LOAD TEST												
2.40	1036	120	Gasol.	0.44	5.43	0.625	0.00	0.625	210	76	81	28.8
VARYING LOAD TEST												
2.37	1019	10	Gasol.									
2.35	951	10	"									
0.17	1093	10	"									
0.52	1057	10	"									
1.20	1038	10	"									
1.67	961	10	"									
2.40	1071	60	Gasol.	0.30	4.77	0.50	0.00	0.50	210	82	79	28.7
MAXIMUM LOAD TEST												
2.37	1023	60	Gasol.	0.42	5.60	0.00	0.75	0.75	210	80	79	28.7
HALF LOAD TEST												
1.20	1033	60	Gasol.	0.25	4.72	0.75	0.00	0.75	208	83	79	28.8

\*Taken in discharge line from engine.

Remarks Gasoline used for fuel in this test weighed 6.14 lbs per gallon.

Drawbar Horse Power Tests

Horse Power Developed	Draw Bar Pull Pounds	Speed Miles per Hour	Crank Shaft Speed R. P. M.	** Slippage of Drive Wheels %	Fuel Consumption			Water Used per Hour Gallons	*Temperature of Cooling Fluid Deg. F.	Temperature of Atmosphere Deg. F.	Average Humidity %	Baro Pre In: Mer
					Kind of Fuel Used	Amount Used per Hour Gallons	Horse Power Hours per Gallon					
RATED LOAD TEST. TEN HOURS												
1.06	187.8	2.17	1334	22.25	Gasol.	0.29	3.78	0.307	204	x	60	28
MAXIMUM LOAD TEST (287.0 Ft.)												
0.78	186.7	1.56	1114	29.2	Gasol.	----Not Recorded----		180	x	55	28	

\*Taken in discharge line from engine.

Remarks \*\* For computing slippage, circumference of drive wheels was taken at points of lugs.

x Not recorded.

Oil Consumption:

During the complete test consisting of about 40 hours running the following oil was used:

For the engine, 7/8 gallons of Veedol Heavy; 1 qt. Veedol extra heavy.

For the transmission, none added. gallons of \_\_\_\_\_

Report of Official Tractor Test No. 28

Repairs and Adjustments. Endurance:

A new carburetor was put on during the limbering up run because the manufacturer's representative thought that the carburetor which came with the tractor was not entirely satisfactory.

At the end of the test the tractor was apparently in good condition. There was no indication of undue wear in any part nor of any weakness which might require early repairs.

Brief Specifications Beeman Model "G" Tractor. (From catalog)

Engine: One cylinder, vertical, L-head. Bore  $3\frac{1}{2}$ " , stroke  $4\frac{1}{2}$ ". Rated speed: 230 to 1500 r.p.m. Rated H.P. 2-4

Chassis: Two drive wheels in front, two castor wheels in rear. Rated speed  $\frac{3}{4}$  to  $2\frac{1}{2}$  miles per hour.

Total weight 550 lbs.

General Remarks:

In the advertising literature submitted with the application for test of this tractor we find some statements and claims which cannot be directly compared with the results of this test as reported above. It is our opinion that none of these statements are unreasonable or excessive

We, the undersigned, certify that above is true and correct report of official tractor test No. 28.

Claude K. Shedd  
Engineer-in-Charge

Osborn J. J. J. J.  
E. E. Brackett  
C. W. Smith  
Board of Tractor Test Engineers.