

University of Nebraska - Lincoln

DigitalCommons@University of Nebraska - Lincoln

Nebraska Tractor Tests

Tractor Test and Power Museum, The Lester F. Larsen

January 1927

Test 138: Continental Cultor #32

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 138: Continental Cultor #32" (1927). *Nebraska Tractor Tests*. 758.
<https://digitalcommons.unl.edu/tractormuseumlit/758>

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.

UNIVERSITY OF NEBRASKA
AGRICULTURAL ENGINEERING DEPARTMENT
AGRICULTURAL COLLEGE, LINCOLN

Copy of Report of Official Tractor Test No. 138

Dates of test: August 6th to 17th, 1927

Name, model and rating of tractor: Continental Cultor No. 32

Serial No. Engine: 14688337 Serial No. Chassis: 5099

Manufacturer: Continental Cultor Co., Springfield, Ohio

Tractor equipment used: Ford ignition system, Kolley-Ford Carburetor

Style and dimensions of wheel lugs: Spade 20 per wheel, 2-5/8" high x 2-1/2"
x 1-3/4"

5" extension rims.

BRAKE HORSE POWER TESTS

NO BELT TESTS

REMARKS: The gasoline used as fuel in these tests weighed 6.20 lbs.
per gallon.

Copy of Report of Official Tractor Test No. 138.

DRAWBAR HORSE POWER TESTS

H. P. Dev.	Draw	Speed	Crank	Slip	Fuel	Consumption	Water	Temp. Deg. F.	Average	Height of	
	Bar	Miles	Shaft	on	Used	H. P. Used	Used	Cooling			Humidity
	Pull	per	Speed	Drive	Used	per	Hrc. Per	Fluid	Air	%	In Inches
	Pounds	Hour	R.P.M.	Wheels		hour	Per Hour	*			
				%		Gals.	Gal.	Gals.			

RATED LOAD TEST. TEN HOURS

4.93	: 591	: 3.13	: 1040	: 5.03	: Gaso.	: 1.213	: 4.06	: 0.42	: 204	: 84	: 76.5	: 28.70
------	-------	--------	--------	--------	---------	---------	--------	--------	-------	------	--------	---------

MAXIMUM LOAD TEST

8.41	: 1050	: 3.01	: 1061	: 11.70	: Gaso.	: -- NOT RECORDED --	: 208	: 87	: 34	: 28.75
------	--------	--------	--------	---------	---------	----------------------	-------	------	------	---------

* Taken in discharge line from engine.

REMARKS: This tractor has but one speed forward.
The distance advanced by the tractor without load on level ground for several complete revolutions of the drive wheels was taken as a basis for calculating the slippage.

OIL CONSUMPTION:

During the complete test consisting of about 25 hours running the following oil was used:
For the engine, 1-3/4 gallons of Mobiloil "E". 1 gallon to fill crankcase. 3/4 gallons added during test.
For the differential and wheels: 1/4 gallons of 600 W added during test.

Copy of Report of Official Tractor Test No. 138

REPAIRS AND ADJUSTMENTS

During the rated drawbar test the left main drive chain broke. The broken link was replaced with a new link. During the same test two teeth were broken on the main drive sprocket. The test was completed without repair. No other repairs or adjustments were necessary during this test. At the end of the test the tractor was in good running order and there were no indications of undue wear nor of any weakness which might require early repair.

BRIEF SPECIFICATIONS

MOTOR: Ford Model "T", 4 cylinder, L-head, mounted crankshaft lengthwise.
Bore: 3-3/4 inches, Stroke 4 inches.
Rated speed 1050 R.P.M.

Ignition system: Ford Model "T".
Carburetor: Holley - Ford.
Air Cleaner: None.
Governor: None.

CHASSIS: Two wheels, both drivers, open chain final drive, multiple disc clutch. Advertised speeds: 3 miles per hour.

Total weight as tested (with operator) 1840 pounds.

REMARKS

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

We, the undersigned, certify that above is a true and correct copy of report of Official Tractor Test No. 138.

Lew Wallace

Oscar W. Sjogren

E. E. Brackett

C. W. Smith