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January 1926

Test 120: Cletrac Model K 15-25

Nebraska Tractor Test Lab

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AGRICULTURAL COLLEGE, LINCOLN

Dates of Test: April 30th to May 5th, 1926

Serial No. Engine: K 800 S

Serial No. Chassis: K 890

Tractor equipment used: Eiseman "GS4" Mag., Tillotson "R2" Carburetor

Style and dimensions of wheel lugs: Angles 12" long, 2-1/4" high at center.

[illegible]

25.16 : 1392 : 120 : Gaso. : 3.382 : 7.44 : 0.00 : 0.00 : 0.00 : 185 : 87 : 39 : 28.68

25.20	:	1377	:	10	:	Gas.	:	:	:	:	:	:	:	:
25.18	:	1351	:	10	:	"	:	:	:	:	:	:	:	:
0.94	:	1646	:	10	:	"	:	:	:	:	:	:	:	:
7.52	:	1635	:	10	:	"	:	:	:	:	:	:	:	:
14.87	:	1619	:	10	:	"	:	:	:	:	:	:	:	:
20.92	:	1531	:	10	:	"	:	:	:	:	:	:	:	:
16.55	:	1526	:	60	:	"	:	3.002	:	5.51	:	0.00:0.00:	0.00:	179: 92 : 28: 28.65

30.15 : 1380 : 60 : Gaso.:4.267 : 7.07 : 0.00:0.00: 0.00: 182: 81 : 50: 28.67

14.50 : 1590 : 60 : Gaso.:2.737 : 5.20 : 0.00:0.00: 0.00: 177: 92 : 28: 28.63

** The last line is the average for the hour

REMARKS: The gasoline used as fuel in these tests weighed 6.15 pounds per gallon.

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DRAWBAR HORSE POWER TESTS

:	:	:	:	:	: <u>Fuel Consumption</u> :				: <u>Temp. Deg. F.</u> :			:
H.P. :	Draw :	Speed :	Crank :	Slip :	Kind :	Amt. :	H.P. :	Water :	Cooling :	:	Average :	Height of
Dev. :	Bar :	Miles :	Shaft :	on :	Used :	Per :	Hrs. :	Used :	Fluid :	Air :	Humidity :	Barometer
:	Pull :	Per :	Speed :	Drive :	:	Hour :	Per :	Per :	*	:	%	In Inches
:	Pounds :	Hour :	R.P.M. :	Wheels :	:	Gal :	Gal :	Hour :	:	:	:	:
:	:	:	:	% :	:	:	:	Gal :	:	:	:	:

RATED LOAD TEST. TEN HOURS

15.31 :	2763 :	2.08 :	1377 :	2.44 :	Gasol.:	2.816 :	5.44 :	0.029 :	164 :	78 :	34.5 :	28.72
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MAXIMUM LOAD TEST

24.53 :	4590 :	2.005 :	1370.5 :	7.00 :	Gasol.:	-- :	NOT RECORDED -- :	173 :	82 :	38. :	28.56
20.73 :	1840 :	4.225 :	1380 :	1.75 :	Gasol.:	-- :	NOT RECORDED -- :	169 :	80 :	44.5 :	28.59

* Taken in discharge line from engine.

REMARKS: The distance advanced by the tractor without load on level ground for one complete revolution of the tracks was taken as a basis for calculating track slippage.

The rated load and first maximum tests were made in low gear, the second maximum test was made in high gear.

OIL CONSUMPTION:

During the complete test consisting of about 39 hours running the following oil was used:
For the engine, 3.00 gallons of Mobiloil "BB", 1-1/4 gallons to fill crankcase, 1-3/4 gallons were added.
For the transmission, 0.75 gallons of Mobiloil "BB".

Copy of Report of Official Tractor Test No. 120

REPAIRS AND ADJUSTMENTS

During the low gear rated and maximum drawbar horsepower tests the gear shift lever had to be fastened in place in order to keep the gears in mesh.

At the end of the test the tractor was in good running order and there was no indication of undue wear nor of any weakness which might require early repair.

BRIEF SPECIFICATIONS

Motor: Own, 4 cylinder, vertical, valve-in-head, mounted crankshaft lengthwise.
Bore 4", stroke 5-1/2". Rated speed 1375 R.P.M.

Eiseman "GS 4" magneto, Tillotson "R 2" carburetor.
Governor: Own, fly-ball type.
Air cleaner: Pomona, oiled fiber type.

Chassis: Track-layer, two tracks, enclosed gear drive, single plate clutch. Advertised speeds: Low 2.25 miles per hour;
High 4.50 miles per hour; Reverse 2.25 miles per hour.

Total weight as tested (with operator) 4775 pounds.

REMARKS

In the advertising literature submitted with the 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, except advertised speed miles per hour, Low 2.25, High 4.50 and Reverse 2.25, should be Low 2.13, High 4.23 and Reverse 1.66 miles per hour at 1375 R.P.M. of the engine.

We, the undersigned, certify that above is a true and correct report of official tractor test No. 120.

Low Wallace
Engineer-in-Charge

Oscar W. Sjogren

E. E. Brackett

C. W. Smith
Board of Tractor Test Engineers