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Test 115: Shawnee Thirty (Road Maintainer)

Nebraska Tractor Test Lab

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UNIVERSITY OF NEBRASKA AGRICULTURAL ENGINEERING DEPARTMENT

AGRICULTURAL COLLEGE, LINCOLN

Copy of Report of Official Tractor Test No. 115

Dates of test: May 16th to May 28th, 1925

Name, model and rating of tractor: Shawnee Thirty (Road Maintainer)

Serial No. Engine: 72367

Serial No. Chassis: 950 - 1269

Manufacturer: Shaw-Enochs Tractor Company, Minneapolis, Minnesota

Tractor equipment used: Eismann GS4 magneto, Zenith carburetor

Style and dimensions of wheel lugs: Cleats, 3-1/4" high

NO BRAKE HORSE POWER TESTS

MACHINE NOT EQUIPPED WITH BELT PULLEY

REMARKS: The gasoline used as fuel in this test weighed 6.17 pounds per gallon.

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DRAWBAR HORSE POWER TESTS

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

RATED LOAD TEST. TEN HOURS

11.95	:	1732	:	2.59	:	1212	:	-4.17	:	8.24	:	Gasol	:	3.013	:	3.97	:	1.704	:	210	:	77	:	48	:	28.84
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MAXIMUM LOAD TEST

13.19	:	1969	:	2.51	:	1169	:	-3.73	:	8.61	:	Gasol	:	- - NOT RECORDED - -	:	206	:	63	:	36	:	28.98
11.57	:	3533	:	1.23	:	1200	:	12.57	:	22.99	:	"	:	"	:	204	:	64	:	36	:	28.98

* Taken in discharge line from engine

** The first figure denotes slippage at the rim of the wheel. The second figure denotes slippage at the points of the lugs.

REMARKS: The ten hour run and the first maximum run were made in second gear. The second maximum run was made in low gear.

OIL CONSUMPTION: During the complete test consisting of about 26 hours running the following oil was used:
 For the engine, 1-3/4 gallons of Mobiloil "A", 1-1/2 gallons to fill crankcase and 1/4 gallon was added.
 For the transmission, none.
 Other lubricant - 1 lb. cup grease.

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REPAIRS AND ADJUSTMENTS

There were no repairs nor adjustments 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

Shawnee Thirty (Road Maintainer)

Motor: Waukesha, 4 cylinder, vertical, L head (Ricardo) - removable, mounted crankshaft lengthwise. Bore 3-3/4", stroke 5-3/4".
Rated speed, 1200 r.p.m.

Governor: Waukesha (fly-ball)
Air Cleaner United (whirling vane)

Chassis: Two drive wheels (by which machine is steered) in front carry engine and transmission. Two non drivers in rear carry road working equipment and operator. Enclosed worm gear drive, disc clutch. Advertised speeds: low, 1.5 miles per hour; second, 3.0 miles per hour.

Total weight as tested (with operator) 9,840 pounds.

REMARKS

Eight foot blade, scarifier, and rooter plow were carried during test and included in weight above. Dynamometer car was pulled behind complete machine thru chain attached to front end of grader frame.

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 report of official tractor test No. 115.

E. E. Brackett
Engineer-in-Charge

Oscar W. Sjogren

C. W. Smith

Fred R. Nohavee
Board of Tractor Test Engineers