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January 1927

Test 132: Lauson 20-40

Nebraska Tractor Test Lab

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AGRICULTURAL COLLEGE, LINCOLN

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

[illegible]

40.40 : 1040 : 60 : Gaso.: 5.391 : 7.49: 0.00: 0.22: 0.22: 180 : 89 : 87 : 28.46

40.28	:	1038	:	10	:	Gaso.	:		:		:		:		:		:		:	
39.34	:	_1009	:	10	:	"	:		:		:		:		:		:		:	
1.00	:	1076	:	10	:	"	:		:		:		:		:		:		:	
10.33	:	1056	:	10	:	"	:		:		:		:		:		:		:	
20.35	:	1043	:	10	:	"	:		:		:		:		:		:		:	
30.09	:	1030	:	10	:	"	:		:		:		:		:		:		:	
23.92	:	1042	:	60	:	"	:	4.251	:	5.63:	0.00:	0.14:	0.14:	156	:	80	:	93	:	28.35

41.87 : 1040 : 120:Gas.:6.126 : 6.83: 0.00: 0.48: 0.48; 180 : 78 : 97 : 28.54

20.18 : 1030 : 60:Gasol.:2.818 : 7.16: 0.00: 0.14: 0.14: 180 : 62 : 93 : 28.30

REMARKS: The gasoline used as fuel weighed 6.14 pounds per gallon.

Copy of Report of Official Tractor Test No. 132

DRAWBAR HORSE POWER TESTS

H. P.	Draw	Speed	Crank	Slip	Fuel Consumption		Water	Temp. Deg. F.	Average	Height of
	Bar	Miles	Shaft	on	Kind	Amt.	H. P.	Used		
	Pull	Per	Speed	Drive	Used	per	Hrs.	Per	Fluid	Air
	Pounds	Hour	P.P.H.	Wheels		hour	Per	Hour	*	%
				%		Gals.	Gal.	Gals.		Inches

RATED LOAD TEST. TEN HOURS

20.55	:2216	: 3.53	: 1044	: 3.38	: Gaso.:	3.786	: 5.51	: 0.23	: 181	: 63	: 66	: 28.80
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MAXIMUM LOAD TEST

31.92	:3427.5	: 3.49	: 1038	: 3.91	: Gaso.:	--	NOT RECORDED	--	: 180	: 59	: 77	: 28.64
32.82	:5049.5	: 2.44	: 1043.5	: 5.73	: Gaso.:	--	NOT RECORDED	--	: 183	: 58.5	: 77	: 28.64

*Taken in discharge line from engine.

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

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 34 hours running the following oil was used:
For the engine, 2.50 gallons of Mobiloil "BF". 2 gallons to fill crankcase, 1/2 gal. added during test.
For the transmission, None gallons of Mobiloil "C". None added during test.

Copy of Report of Official Tractor Test No. 132.

REPAIRS AND ADJUSTMENTS

No 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: Beaver, 4 cylinder, vertical, valve-in-head, mounted crankshaft lengthwise. Bore, 4-3/4", stroke 6". Rated speed 1040 R.P.M.

Magneto: American Bosch "ZR4Ed26".

Carburetor: Kingston "L3".

Air cleaner: Taco, water type.

Governor: Taco, fly-ball type.

Chassis: Four wheels, two drivers, enclosed gear drive, clutch own make twin disc dry plate. Advertised speeds: Low, 2-1/4 to 2-1/2 miles per hour; High, 3-1/4 to 3-1/2 miles per hour; Reverse, 2 miles per hour.

* Total weight as tested (with operator) 7914 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 report of official tractor test No. 132.

Lew Wallace
Engineer-in-Charge

Oscar W. Sjogren

E. E. Brackett

C. W. Smith
Board of Tractor Test Engineers