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Nebraska Tractor Tests

Tractor Test and Power Museum, The Lester F.  
Larsen

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January 1921

## Test075: Lauson 12-25

Nebraska Tractor Test Lab

University of Nebraska-Lincoln, [tractortestlab@unl.edu](mailto:tractortestlab@unl.edu)

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## UNIVERSITY FARM, LINCOLN

Dates of test: April 30 to May 6, 1921  
Name, model and rating of tractor: Lauson 12 - 25  
Serial No. Engine: 10452 Serial No. Chassis: 2503  
Manufacturer: The John Lauson Mf'g. Co., New Holstein, Wis.  
Tractor equipment used: Dixie (732167) 46 Mag.- Kingston L Carburetor  
Style and dimensions of wheel lugs: Spade 3 high x 4 wide

		Water Consump.	Temp.	Humidity	Height of Barometer	
		Fuel Consump.	Gals. Per Hour			Deg. F.
Crank Time						*
Shaft: of Kind: Gals: H.P.		Cool- In	Cool-			
H. P.	Speed: Test: of @ Hrs. @ ing	Fuel: Total	ing	Air		
Dev.	R. P. M: Min: Fuel: Hour: Gal		Fluid:			

25.21 : 1214 : 120 : Gaso: 2.96: 8.53 : X : 0.83: 0.83 : 164 : 75 : 37 : 29.01  
Belt slippage 1.81%

25.21	:1213	: 10	:Gaso	:	:	:	:	:	:	:	:
25.92	:1213	:	" :	:	:	:	:	:	:	:	:
1.12	:1269	:	" :	:	:	:	:	:	:	:	:
6.51	:1244	:	" :	:	Belt slippage	1.47%	:	:	:	:	:
12.89	:1236	:	" :	:	:	:	:	:	:	:	:
19.06	:1221	:	" :	:	:	:	:	:	:	:	:
15.30	:1233	: 60	: "	: 2.29:6.68	: X	: 0.33:0.33	: 153	: 76	: 37	: 29.01	:

37.38 : 1219 : 60 : Gaso: 5.17: 7.23 : X : 0.52: 0.52 : 158 : 64 : 55 : 29.06  
Belt slippage 1.94%

12.77 : 1225 : 60 : Gaso: 1.98: 6.43 : X : 0.45: 0.45 : 152 : 78 : 37 : 29.01  
Belt slippage 1.35%

Remarks: The fuel used in the first three tests weighed 6.20# per gallon.  
The fuel used in the remaining tests weighed 6.17# per gallon.  
\*\*\* The last line is an average for the hour.

Copy of Report of Official Tractor Test No. 75

Drawbar Horse Power Tests

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

Rated Load Test, Ten Hours

12.81	: 1599	: 3.01	: 1175	: -2.6	: 8.7	: Gaso:	: 2.75	: 4.64	: 0.217	: 152	: 71	: 48	: 29.00
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Maximum Load Test

20.91	: 2985:	2.63:	1135:	7.5:	17.8:	Gaso.---	Not Recorded--	167	: 68	: 40	: 28.85	
16.08	: 3265:	1.85:	1240:	12.3:	21.1	"	--"	"	: 166	: 68	: 40	: 28.85

\*Taken in discharge line from engine

Remarks: The first maximum and rated load tests were run in high gear. The second maximum was run in low gear.

\*\*Two figures are given denoting slippage in each test, the first shows slippage at the rim of the wheel, and the second shows slippage at the points of the lugs.

Oil Consumption: During the complete test consisting of about 32 hours running the following oil was used: For the engine, 3 gallons of Mobiloil BB; For the transmission, none.

577-E

Copy of  
Report of Official Tractor Test No. 75

General Remarks:

Repair - Adjustment and Endurance

Just before the maximum belt test all spark plugs were replaced by new ones.

Tightened clutch on maximum belt test.

Clutch throw-out shoe broke at end of test.

The tractor was in good working condition at end of test and there were no indications of undue wear in any part which might require early repair.

Brief Specifications - Lauson 12-25

Motor: Midwest, 4 cylinder, vertical, valve-in-head, Taco governor, Bore 4 1/8", Stroke 5 1/4", Rated speed 1200 r.p.m.

Chassis: 4 wheel, clutch internal expanding shoe.

Rated speeds: Low, 2 miles per hour; high, 3 miles per hour.

Total weight: 4900 pounds.

Advertising

In the advertising literature submitted with the applications for test of this tractor we find some statements and claims which cannot be directly compared with the results of this test. 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. 75.

Fred R. Nohavec  
Engineer-In-Charge

Oscar W. Sjogren

E. E. Brackett

C. W. Smith  
Board of Tractor Test Engineers