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Nebraska Tractor Tests

Tractor Test and Power Museum, The Lester F. Larsen

January 1921

# Test 076: Best 60 35-55 h.p.

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### UNIVERSITY OF NEBRASKA AGRICULTURAL ENGINEERING DEPARTMENT

## UNIVERSITY FARM, LINCOLN

Copy of Reoport of Official Tractor Test No. 76

Dates of Test: May 6 to 24, 1921
Name, model and rating of tractor: "Best 60" 35-55 H.P.
Serial No. Engine: 2577. Serial No. Chassis: 845 A
Manufacturer: C. L. Best Tractor Co., San Leandro, Calif.
Tractor equipment used: Bosch (3215582) ZR41S Magneto; Ensign G Carburetor
Style and Dimensions of wheel lugs: Track Layer.

#### BRAKE HORSE POWER TESTS

	: : :Crank:Tim	9:	Consump.		nsump. Hour			: : b	:	er
H.P. Dev.	:Shaft:of :SpeediTes :R.P.M:Min	t:Kind:		:ing	:Total	: :Cool: :ing	:Air	Humidit	Height	Barome t

#### RATED LOAD TEST

56.09 : 655 :120 :Caso:6.97:8.05	:	5	:	X	:	10	:	209	:90	:	51	:28.5	_
Relt Slippage 1.90%													

#### \*\*VARYING LOAD TEST

56.04	:	655	:	10	:	Gas	0:	:		:			:			:	:	:
56.02	1	650	:	10	:	11	2	:		:	1		:			:	:	:
2.35	*	974	:	10	:	11	:	:		:			:		:	:	:	:
20.47	:	950	:	10	:	11	:	:	Be:	lt :	slipy	age	1	.54%				
35.77	*	832	:	10	:	11	K	1		:			:			:	:	:
47.23		737	:	10	:	11	:	:		:			;		:	:	:	1
40.46	-	799	:	60	:	Gas	0:6	.14:6	.58	:1	.50	X	;	1.50	: 485	:95	: 51	:28.5

#### MAXIMUM LOAD TEST

56.33 : 655 : 1	60 :Gaso: 6.	90:8.16	:7.00 :	X :	7.00:	209	:94 : 1	51 :28.5	
Belt Slippage									

#### HALF LOAD TEST

32.86	: 757	: 60	:Gaso:4.	94:6.65	:1.00	: 2	:	1.00:	190	:95 :	51	:28.5	
Belt S													
4m *			3.1	0									

<sup>\*</sup>Taken in discharge line from engine

Remarks: The gasoline used for fuel in this test weighed 6.17 pounds per gallon.

\*\* Note - The last line is an average for the hour.

# Cory of Report of Official Tractor Test No. 76 (Corrected)

## Drawbar Horse Power Tests

H.P. Dev.	: :Draw :Bar :Pull	:Miles	: :Crank: :Shaft: :Speed:	on Drive	: : :Kind	Amt.	:H.P. :Hrs.	:Water :Used :Per	: * : Coo	ling:	Air	-: 1		:	
	:Lbs.	:Hour	:R.P.M:\	MARCHES	T. W. L. C.	: Gals.		The state of the s		uid :		:		:	
			Rate	ed Loa	d Tes	t, Ten	Hours								
35.31	: 5093	: 2.60	: 692 :	1,25	:Gaso	:5.66	:6,24	:0.16	: 18	7 :	86	:	49	:	28,70
			1	iaxina	in Load	l Test									
			: \$64 :				Recor	ded	: 19	5 :	80	:	48	:	28,80
ALCOHOL: UNKNOWN	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	The second second	: 542 :				"		: 17	0 :	80	:	48	;	28,80

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

\*\* Note: For computing slippage the cutside length of track was measured.

Oil Consumption: During the complete test consisting of about 45 hours running the following oil was used: For the engine, 112 gallons of Mobiloil A; For the transmission, 12 gallons of Mobiloil C To fill at start.

## Copy of Report of Official Tractor Test No.76

# Repairs and Adjustments:

After 12 hours of limber-up run the valves were ground and the manufacturer's representative asked for and was granted 12 hours additional time for limbering up.

Before any of the official data were taken the sir cleaner was removed and will not be standard equipment. Also changed carburetor horn from 12" to 2". The belt horse power rating was changed from 60 to 55 horse power.

At the end of the test the tractor was in good operating condition and there was no indication of undue wear in any part nor of any weakness which might require early repairs.

# Brief Specifications: "Best 60", 35-55 H.P.

Motor: Own, 4 cylinder, vertical, valve-in-head; bore 62", stroke 82"; rated speed: 650 r.p.m. rated H.P.:belt 55, drawbar 35... Chassis: Track Layer, disc clutch. Rated speeds: low 1 7/8 miles per hour; high 2 5/8 miles per hour.

Total weight: 17,500 pounds.

# General Remarks:

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 believe the name "Best 60" and characters "60 H.P." cast in radiator shell are misleading.

We, the undersigned, certify that above is a true and correct copy of seport of offical tractor test No. 76.

Fred R. Nohavec		Oscar W. Sjogren
Engineer-in-Charge		E. E. Brackett
		E. E. Brackett
	Pos	C. W. Smith