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January 1924

Test 103: Oil Pull Model S 30-60

Nebraska Tractor Test Lab

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Copy of Report of Official Tractor Test No. 103

DRAWBAR HORSE POWER TESTS

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

RATED LOAD TEST. TEN HOURS

32.72	4847	2.53	473	4.22	Kero	4.326	7.78	4.759	185	60	85	20.56
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MAXIMUM LOAD TEST

40.10	6016	2.50	475	-2.22	Kero	NOT RECORDED	176	76	50	28.54
40.57	8350	1.82	474	8.03	"	" "	184	80	50	28.54
40.59	4731	3.22	473	-5.93	"	" "	174	76	50	28.54

* Taken in discharge line from engine.

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

REMARKS: The rated load and first maximum tests were made in 2nd gear. The second maximum test was made in low gear. The third 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, 11 gallons of Mobiloil "B", 2-1/4 to fill crank case and 8-3/4, added to lubricator.

For the transmission, no gallons of 600 W.

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REPAIRS AND ADJUSTMENTS

During this test no repairs or adjustments were necessary.

At the close of the test inspection showed that the inlet valves were not seating, which probably was due to improper fitting at assembly.

At the close of the test the tractor was in good operating condition and there were no indications of undue wear in any part which might require early repair.

BRIEF SPECIFICATIONS

Oil Pull "S" 30-60

Motor: Own, 2 cylinder, horizontal, valve-in-head. Bore 9", stroke 11".
Rated speed 470 r.p.m.

Chassis: 4 wheel, disc clutch, enclosed transmission, live drive axle.
Rated speeds: low, 2 miles per hour; 2nd, 2.50 miles per hour;
3rd, 3 miles per hour.

Total weight with driver, as tested - 17,500 pounds.

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, the undersigned, certify that above is a true and correct report of official tractor test No. 103.

E. E. Brackett
Engineer in Charge

Oscar W. Sjogren

C. W. Smith

Fred R. Nohavec

Board of Tractor Test Engineers.