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January 1949

Test 423: John Deere MT

Nebraska Tractor Test Lab

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BELT HORSE POWER TESTS

H. P.	Crank shaft speed R.P.M.	Fuel Consumption			Water used Gal. per hour	Temp. Deg. F.		Barometer Inches of Mercury
		Gal. per hour	H.P. hr. per gal.	Lb. per H.P. hour		Cooling med.	Air	
TEST B—100% MAXIMUM LOAD—TWO HOURS								
20.78	1651	2.071	10.03	0.611	0.01	201	70	29.097
TEST C—OPERATING MAXIMUM LOAD—ONE HOUR								
19.80	1650	1.774	11.16	0.549	0.01	201	73	29.093
*TEST D—ONE HOUR								
18.42	1651	1.673	11.01	0.556	0.01	198	71	29.105
TEST E—VARYING LOAD—TWO HOURS (20 minute runs; last line average)								
18.41	1653	1.675	10.99	0.557	- -	198	70	-- --
1.49	1711	0.788	1.89	3.242	- -	190	70	-- --
9.70	1708	1.126	8.61	0.711	- -	195	69	-- --
19.04	1605	1.724	11.04	0.555	- -	196	70	-- --
4.77	1699	0.911	5.24	1.170	- -	194	69	-- --
14.23	1689	1.391	10.23	0.599	- -	195	68	-- --
11.27	1677	1.270	8.87	0.690	0.01	195	69	29.105

DRAWBAR HORSE POWER TESTS

H. P.	Draw bar pull Lbs.	Speed miles per hr.	Crank shaft speed R. P. M.	Slip of drive wheels %	Fuel Consumption			Water used Gal. per hr.	Temp. Deg. F.		Barometer Inches of Mercury
					Gal. per hour	Hp.-hr. per Gal.	Lb. per Hp.-hr.		Cool- ing med.	Air	
TEST F—100% MAXIMUM LOAD— 3rd GEAR											
18.27	1455	4.71	1652	4.46	Not Recorded				196	53	29.065
TEST G—OPERATING MAXIMUM LOAD											
10.99	2385	1.73	1650	15.70	Not Recorded				193	58	29.075
17.56	1891	3.48	1650	6.51	" "				194	60	28.725
17.23	1375	4.70	1648	4.39	" "				192	64	28.825
14.51	501	10.86	1648	1.75	" "				198	61	29.075
					" "						
					" "						
*TEST H—TEN HOURS— 3rd GEAR											
14.15	1118	4.75	1654	3.77	1.567	9.03	0.679	0.00	194	67	28.872
TEST J—OPERATING MAXIMUM LOAD - 3rd GEAR											
16.84	1344	4.70	1646	5.16	Not Recorded				191	63	28.825

TIRES, WHEELS and WEIGHT

Tests F, G & H

Test J

Rear Wheel: Type and Weight (each)	Pressed Steel	Pressed Steel
	Liquid Ballast	208 lb.
	Added Cast Iron	135 lb.
Rear Tires: No., Size and Ply	2 9-34 4 ply	2 9-34 4 ply
	Type of Tread	Champion Ground Grip
	Make	Firestone
Front Wheel: Type and Weight (each)	Pressed Steel	Pressed Steel
	Liquid Ballast	30 lb.
	Added Cast Iron	None
Front Tires: No., Size and Ply	2 5.00-15 4 ply	2 5.00-15 4 ply
	Type of Tread	Guide Grip
	Make	Firestone
Height of Drawbar	28 lb.	28 lb.
	Static Weight: Rear End	2832 lb.
	Front End	922 lb.
Total Weight as Tested (With operator)		3929 lb.

HORSEPOWER SUMMARY

	Draw- bar	Belt
1. Sea level (calculated) maximum horsepower (based on 60° F. and 29.92" Hg.)	18.77	21.57
2. Observed maximum horsepower (tests B & F)	18.27	20.78
3. Seventy-five per cent of calculated maximum drawbar horsepower and eighty-five per cent of calculated maximum belt horsepower (formerly ASAE and SAE ratings)	14.08	18.33

We, the undersigned, certify that this is a true and correct report of official tractor test No. 423.

L. F. Larsen
Engineer in Charge

C. W. Smith
F. D. Yung
L. W. Hurlbut
Board of Tractor
Test Engineers

* Formerly called RATED LOAD, see horsepower summary.

