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January 1929

Test 156: McCormick-Deering (Model 15-30) 22-36

Nebraska Tractor Test Lab

University of Nebraska-Lincoln, tractortestlab@unl.edu

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UNIVERSITY OF NEBRASKA AGRICULTURAL ENGINEERING DEPARTMENT
AGRICULTURAL COLLEGE, LINCOLN

Copy of Report of Official Tractor Test No. 156

Dates of test: March 30 to April 9, 1929

Name, model and rating of tractor: McCormick Deering (Model 15-30) 22-36

Manufacturer: International Harvester Company, Chicago, Illinois.

B R A K E H O R S E P O W E R T E S T S

	:Crank	:		:	Water Consumption:	Temp.	:	
	:shaft	:	Fuel Consumption	:	per hour gallons	Deg. F.	:	Barometer
H. P.	:Speed	:	Gals. :H.P. :Lbs. @	:	Cool-In	:	Cool-	:Inches of
	:R.P.M.	:	per :hrs. :H.P.	:	ing :fuel :Total:ing	:	Air	:mercury
	:	:	:hour :gal. :hour	:	:	:	med.	:

OPERATING MAXIMUM LOAD TEST. ONE HOUR (97% OF maximum load)

40.66	:	1050	:	4.070	:	9.99	:	0.687	:	0.0	:	2.56	:	2.56	:	177	:	76	:	28.58
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RATES LOAD TEST. ONE HOUR

36.15	:	1055	:	3.898	:	9.27	:	0.740	:	0.0	:	1.80	:	1.80	:	185	:	82	:	28.57
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*VARYING LOAD TEST. TWO HOURS

36.67	:	1062	:	3.897	:	9.41	:	0.729	:	0.0	:	- -	:	- -	:	194	:	91	:	- - -
0.89	:	1187	:	1.364	:	0.65	:	10.517	:	0.0	:	- -	:	- -	:	160	:	01	:	- - -
19.42	:	1121	:	2.659	:	7.30	:	0.939	:	0.0	:	- -	:	- -	:	172.5	:	91.5	:	- - -
39.02	:	1074	:	4.019	:	9.71	:	0.707	:	0.0	:	- -	:	- -	:	197	:	93	:	- - -
9.90	:	1143	:	2.020	:	4.90	:	1.400	:	0.0	:	- -	:	- -	:	170.5	:	92.5	:	- - -
28.09	:	1094	:	3.315	:	8.47	:	0.810	:	0.0	:	- -	:	- -	:	183.5	:	92	:	- - -
22.85	:	1110	:	2.879	:	7.94	:	0.864	:	0.0	:	2.11	:	2.11	:	181	:	92	:	28.54

* 20 minute runs. Last line is average for two hours.

D R A W B A A R H O R S E P O W E R T E S T S

	:Draw	:	Speed	:	Crank	:	Slip	:	Fuel Consumption	:	Water	:	Temp.	:	
	:Bar	:	miles	:	shaft	:	in	:	H.P. :Lbs.	:	used	:	:	:	Barometer
H. P.	:pull	:	per	:	speed	:	drive	:	Gal. :hr,	:	per	:	Gal. :Cool-Air	:	Inches of
	:pounds	:	hour	:	R.P.M.	:	wheels	:	per :per	:	H.P. :per	:	ing	:	mercury
	:	:	:	:	%	:	hour	:	Gal. :hour	:	hour	:	med.	:	:

RATED LOAD TEST. TEN HOURS. Intermediate Gear.

22.78:2258	:	3.78	:	1058	:	4.56	:	3.688	:	6.18	:	1.111	:	0.64	:	184	:	68	:	28.86
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MAXIMUM LOAD TEST

28.03:2846.5	:	3.69	:	1040	:	5.21	:	- -	:	Not	:	Recorded	:	168	:	51	:	28.60
25.46:2190	:	4.36	:	1051	:	4.74	:	"	:	"	:	"	:	170	:	50	:	28.58
30.07:3912.5	:	2.88	:	1055	:	6.63	:	"	:	"	:	"	:	168	:	51	:	28.60

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BRIEF SPECIFICATIONS

MOTOR: Make Own Serial No. TG 102912M Type 4 Cylinder Vertical
Head (I) Mounting Lengthwise
Bore and stroke 4.75 x 6 In. Rated R.P.M. 1050
Port Dia. Valves: Inlet 1.75" Exhaust 2"
Belt pulley: Diam. 16.75 in. Face 9 in. R.P.M. 593
Magneto: Own Model "E4A"
Carburetor: Ensign Model "RW" Size 1½"
Governor: Own No. - - - - - Type Fly-ball
Air Cleaner: Pomona Type Oil Filter
Lubrication: Circulating and Splash

CHASSIS: Type 4 Wheels Serial No. TG102912M Drive Enclosed gear
Clutch: Own Type Single Plate operated by Foot
Advertised speeds, miles per hour: Low 2.50
Intermediate 3.25 High 3.75 Reverse 2.25
Drive wheels: Diameter 50" Face 12"
Lugs: Type Spade No. per wheel 48 Size 6" x 3½" x 6¼" Base
Extension rims: Width 6" Seat Pressed Steel
Total weight as tested (with operator) 7486 pounds.

FUEL AND OIL

Fuel: Kerosene Weight per gallon 5.86
Oil: Mobiloil BB To fill crankcase 2.625 gallons
Additional amount used during test 2.375 gallons
Total number of hours of test 48.5

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REPAIRS AND ADJUSTMENTS

No repairs or adjustments.

REMARKS

The tests herein reported were conducted with one carburetor setting which remained unchanged throughout the tests. This condition should be recognized when comparing this test with any Nebraska test conducted prior to 1928.

In the advertising literature submitted with the specifications and application for test of this tractor we find no claims and statements which, in our opinion, are unreasonable or excessive.

The results of this test indicate that the rating of this tractor does not exceed the provisions of the tractor rating code of the American Society of Agricultural Engineers and the Society of Automotive Engineers.

We, the undersigned, certify that above is a true and correct report of Official tractor test No. 156.

Lew Wallace
Engineer-in-Charge

E. E. Brackett

C. W. Smith

E. B. Lewis
Board of Tractor Test Engineers