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Larsen

January 1926

Test 130: McCormick-Deering 15-30

Tractor Museum

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UNIVERSITY OF NEBRASKA AGRICULTURAL ENGINEERING DEPARTMENT

AGRICULTURAL COLLEGE, LINCOLN

Copy of Report of Official Tractor Test No. 130

Dates of test: October 26th to November 2nd, 1926
 Name, model and rating of tractor: McCormick-Deering 15-70
 Serial No. Engine: 6982 Serial No. Chassis: TG46953
 Manufacturer: International Harvester Co., Chicago, Illinois
 Tractor equipment used: Own "E4A" Mag., Ensign "RT" Carb.
 Style and dimensions of wheel lugs: Spade, 40 per wheel, 5" high, 6" Ext. Rims

BRANT HORSE POWER TESTS

H. P. Dev.	Shaft Speed	of Test	Kind of fuel	Gals. per hour	H. P. hrs.	Cooling	In fuel	Total	Cooling	Air	Temp. Deg. F.	Average Humidity %	Height of Barometer In Inches

RATED LOAD TEST

30.22 : 1052 : 120 : Kero. : 2.928 : 10.32 : 0.00 : 1.165 : 1.165 : 208 : 53 : 65 : 28.90

**VARYING LOAD TEST

30.41 : 1059 : 10 : : : : : : : : : : :
 30.25 : 1048 : 10 : : : : : : : : : : :
 0.94 : 1126 : 10 : : : : : : : : : : :
 6.42 : 1167 : 10 : : : : : : : : : : :
 15.83 : 1098 : 10 : : : : : : : : : : :
 23.10 : 1070 : 10 : : : : : : : : : : :
 18.57 : 1094 : 60 : Kero. : 2.174 : 8.54 : 0.00 : 0.58 : 0.58 : 208 : 55 : 40 : 29.02

MAXIMUM LOAD TEST

34.91 : 1054 : 60 : Kero. : 3.708 : 9.41 : 0.00 : 2.54 : 2.54 : 206 : 54 : 44 : 29.00

HALF LOAD TEST

15.54 : 1079 : 60 : Kero. : 1.920 : 6.09 : 0.00 : 0.37 : 0.37 : 208 : 58 : 40 : 29.00

- * Taken in discharge line from engine.
- ** The last line is the average for the hour.

REMARKS: The kerosene used as fuel in these tests weighed 6.79 pounds per gallon.

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DRAWBAR HORSE POWER TESTS

H. P. Dev.	Draw Bar Pull	Speed: Miles Per Hour	Crank Shaft R.P.M.	Slip on drive wheels %	Fuel Consumption Kind Used	Amount per hour	H. P. Per Hour	Water Used Per Hour	Temp. Deg. F. Cooling Fluid *	Average Humidity %	Height of Barometer In Inches
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RATED LOAD TEST. TEN HOURS

15.26	:1788	:3.20	:1050	: 4.31	:Kero.	:2.118	: 7.21	: 0.97	: 197	: 37	: 60	: 28.85
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MAXIMUM LOAD TEST

25.545	:3065	:3.125	: 1052	: 6.87	:Kero.	: --	NOT RECORDED	--	: 208	: 50	: 44	: 28.72
26.665	:4190	:2.39	: 1053	: 9.17	:Kero.	: --	NOT RECORDED	--	: 207	: 50	: 44	: 28.70
18.81	:1342.5	:5.26	: 1053	: 4.705	: "	: "	"	"	: 206	: 51	: 44	: 28.71

* Taken in discharge line from engine.

REMARKS: The rated load and first maximum tests were made in intermediate gear. The second maximum test was made in low gear. The third maximum was made in high gear.

OIL CONSUMPTION:

During the complete test consisting of about 35 hours running the following oil was used:

For the engine, 5-1/2 gallons of Mobiloil "BB", 3-1/2 gallons to fill crankcase, 2 gallons were added during test.
 For the transmission, None added gallons of Mobiloil "C"

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REPAIRS AND ADJUSTMENTS

No repairs or adjustments were necessary during this test. At the end of the test the tractor was in good running order and there were no indications of undue wear nor of any weakness which might require early repair.

BRIEF SPECIFICATIONS

Motor: Own, 4 cylinder, vertical, mounted crankshaft lengthwise, valve-in-head. Bore 4-1/2", stroke 6". Rated speed 1050 R.P.M.

Magneto: Own "E4A". Carburetor: Ensign "EM".
Air Cleaner: Pomona "Vortex" oil spray type.
Governor: Own, fly ball type.

Chassis: Four wheels, two drivers, enclosed gear drive, multiple dry disc clutch. Advertised speeds: Low 2 miles per hour, high 4 miles per hour, intermediate 3 miles per hour. Reverse 2-1/2 miles per hour.

Total weight as tested (with operator) 6982 pounds.

REMARKS

In the advertising literature submitted with the specifications and application for test of this tractor, we find some claims and statements which cannot be directly compared with the results of this test as reported above. 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. 130.

Lew Wallace
Engineer-in-Charge

Oscar W. Sjogren

E. E. Brackett

C. W. Smith

Board of Tractor Test Engineers