

January 1929

## Test 155: Case 26-40 Model L

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UNIVERSITY OF NEBRASKA AGRICULTURAL ENGINEERING DEPARTMENT  
AGRICULTURAL COLLEGE, LINCOLN

Copy of Report of Official Tractor Test No. 155

Dates of test: March 16 to 27, 1929.

Name, model and rating of tractor: Case 26 \* 40 Model "L".

Manufacturer: J.I. Case Threshing Machine Co., Racine, Wis.

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

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

OPERATING MAXIMUM LOAD TEST. ONE HOUR (95 of maximum load)

44.01 : 1099 : 4.461 : 9.87 : 0.69<sup>2</sup> : 0.0 : 0.0 : 0.0 : 190 : 61 : 28.18

RATED LOAD TEST. ONE HOUR

40.22 : 1102 : 4.123 : 9.76 : 0.701 : 0.0 : 0.0 : 0.0 : 183 : 62 : 28.17

VARYING LOAD TEST. TWO HOURS

<u>40.18</u>	<u>: 1102</u>	<u>: 4.140</u>	<u>: 9.71</u>	<u>: 0.705</u>	<u>: 0.0</u>	<u>: 0.0</u>	<u>: 0.0</u>	<u>: 185</u>	<u>: 62</u>	<u>: --</u>
<u>0.595</u>	<u>: 1154</u>	<u>: 1.342</u>	<u>: 0.44</u>	<u>15.429</u>	<u>: 0.0</u>	<u>: 0.0</u>	<u>: 0.0</u>	<u>: 156</u>	<u>: 64</u>	<u>:</u>
<u>20.59</u>	<u>: 1119</u>	<u>: 2.377</u>	<u>: 8.66</u>	<u>: 0.790</u>	<u>: 0.0</u>	<u>: 0.0</u>	<u>: 0.0</u>	<u>: 183.5</u>	<u>: 63</u>	<u>:</u>
<u>41.57</u>	<u>: 1095</u>	<u>: 4.145</u>	<u>: 10.03</u>	<u>: 0.682</u>	<u>: 0.0</u>	<u>: 0.0</u>	<u>: 0.0</u>	<u>: 186.5</u>	<u>: 62</u>	<u>:</u>
<u>10.52</u>	<u>: 1140</u>	<u>: 1.728</u>	<u>: 6.09</u>	<u>: 1.124</u>	<u>: 0.0</u>	<u>: 0.0</u>	<u>: 0.0</u>	<u>: 176.5</u>	<u>: 62</u>	<u>: --</u>
<u>30.50</u>	<u>: 1108</u>	<u>: 3.110</u>	<u>: 9.81</u>	<u>: 0.697</u>	<u>: 0.0</u>	<u>: 0.0</u>	<u>: 0.0</u>	<u>: 185</u>	<u>: 64</u>	<u>:</u>
<u>** 24.32</u>	<u>: 1119</u>	<u>: 2.807</u>	<u>: 8.66</u>	<u>: 0.789</u>	<u>: 0.0</u>	<u>: 0.0</u>	<u>: 0.0</u>	<u>: 179</u>	<u>: 63</u>	<u>: 28.16</u>

\*\* - The last line is the average for the two hours. - - - - -

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

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

RATED LOAD TEST. TEN HOURS. Intermediate Gear.

26.28 : 2855 : 3.45 : 1095 : 9.71 : 4.028 : 6.52 : 1.049 : 0.13 : 185 : 65 : 28.95

MAXIMUM LOAD TEST

<u>29.66</u>	<u>: 3427</u>	<u>: 3.25</u>	<u>: 1110</u>	<u>: 15.65</u>	<u>: --</u>	<u>: Not Recorded</u>	<u>: 192.5</u>	<u>: 73</u>	<u>: 28.84</u>
<u>30.08</u>	<u>: 2645</u>	<u>: 4.26</u>	<u>: 1096</u>	<u>: 11.05</u>	<u>: "</u>	<u>: "</u>	<u>: 174.5</u>	<u>: 68.5</u>	<u>: 28.84</u>
<u>30.02</u>	<u>: 4555</u>	<u>: 2.47</u>	<u>: 1154</u>	<u>: 21.91</u>	<u>: "</u>	<u>: "</u>	<u>: 187</u>	<u>: 69</u>	<u>: 28.95</u>

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Copy of Report of Official Tractor Test No. 155

BRIEF SPECIFICATIONS

MOTOR: Make O)wn Serial No. 300202 Type 4 Cylinder vertical  
Head "I" Mounting Lengthwise  
Bore and stroke: 4-5/8 x 6 in. Rated R.P.M. 1100  
Port Dia. Valves: Inlet 1-5/8" Exhaust 1-7/8"  
Belt pulley: Diam. 13 in. Face 8 1/4 in. R.P.M. 780  
Magneto: Robert Bosch Model FU4  
Carburetor: Kingston Model L3 Size 1 1/2  
Governor: Own No. -- Type Flyball  
Air Cleaner: Own make Type Oil filter  
Lubrication: Pressure

CHASSIS: Type 4 Wheels Serial No. 300202 Drive Gear & Chain  
Clutch: Twin Disc Type Disc operated by Hand  
Advertised speeds, miles per hour: Low 2.5  
Intermediate 3.25 High 4.00 Reverse 2.75  
Drive wheels: Diameter 48" Face 12"  
Lugs: Type Spade No. per wheel 28 Size 4.8"x3.4"x6.25"  
Extension rims: Width None Seat Pressed Steel  
Total weight as tested (with operator) 5307 pounds.

FUEL AND OIL

Fuel: Kerosene Weight per gallon 6.84  
Oil: Mobiloil "A" To fill crankcase 3 1/2 gallons  
Additional amount used during test 4 Gal. Mob. A & 1 1/4 Gal. Mob. B.  
Total number of hours of test 58

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REPAIRS AND ADJUSTMENTS

Before the official belt tests were run, the weighted air valve in the carburetor was given a few thousandths more end clearance and approximately 5/32 inches was removed from the crown of the belt pulley.

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.

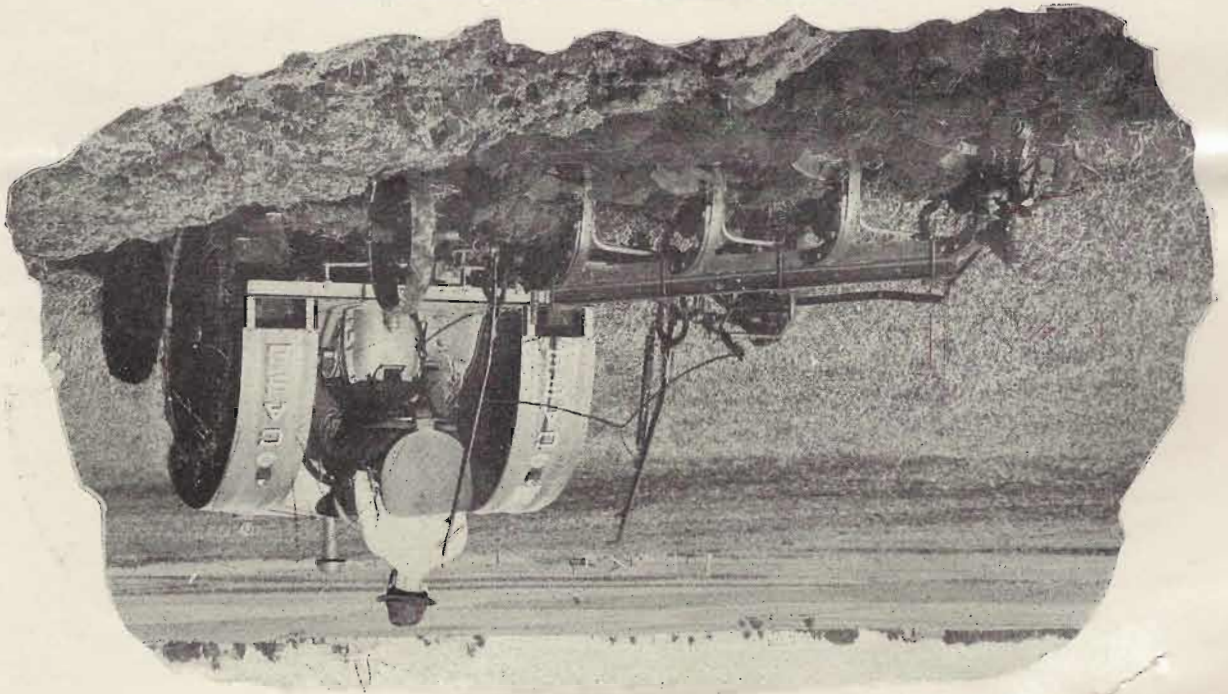
We, the undersigned, certify that above is a true and correct report of official tractor test No. 155.

Lew Wallace  
Engineer-in-Charge

\_\_\_\_\_  
\_\_\_\_\_  
Board of Tractor Test Engineers

# The New Case Model "L" Tractor

Pulling 4-14 Inch Bottoms at 3¼ Miles Per Hour



FOUR YEARS of extensive develop-  
ment have gone into the perfecting  
of the new Model "L" Case tractor.

During that time dozens of machines were  
made and tried out. Model after model  
was designed, built, tested and discarded  
after field trials showed that further  
improvement could be made.

Farmers who watched these experi-  
mental tractors working begged for the  
opportunity of buying similar machines  
because they were enthusiastic over their  
performance, and because they had con-  
fidence in the Case name. We did not  
wish, however, to place a new tractor on  
the market until we were satisfied that we  
had a tractor far ahead of any other,  
possessing every good advantage of pres-  
ent day tractor design, with *additional*  
*features* as well.

Even when the design of the Model "L"  
was finally perfected the tractor was given  
thorough and severe tests before being  
placed in production. Several machines  
were used under the hardest working con-  
ditions that could be found—from the

muddy rice fields and gumbo of Texas to  
the dusty orchards of California. The  
machines were required to stand punish-  
ment which no sane user would ever ex-  
pect to give his tractor—to make certain  
that the design and construction would  
give the owner of a Model "L" the  
*utmost in dependability of perfor-*  
*mance, durability of construction*  
*and economy of operation.*

The excellent performance of the Model  
"L" in these long, grueling tests exceeded  
our anticipations. The Model "L," in our  
opinion, will out-perform any comparable  
tractor on the market. This new Case  
tractor will give unusual satisfaction in  
the hands of users everywhere. The cost  
per horse power hour of the Model "L"  
over its long years of profitable useful-  
ness—the true standard of tractor value  
—will be gratifyingly low.

In the Model "L," you can obtain a  
tractor which, we believe, has no equal.  
A few of its many advantages are de-  
scribed on the following pages.