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January 1936

Test 269: McCormick-Deering Model WK-40

Nebraska Tractor Test Lab

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UNIVERSITY OF NEBRASKA - AGRICULTURAL ENGINEERING DEPARTMENT
AGRICULTURAL COLLEGE, LINCOLNCopy of Report of Official Tractor Test No. 269BRIEF SPECIFICATIONS

MOTOR: Make Own Serial No. WKE1979 Type 6 cylinder, vertical
Head I Mounting Crankshaft lengthwise
Bore and stroke: 3 3/4" x 4 1/2" Rated R.P.M. 1750
Port Diam. Valves: Inlet 1 5/8" Exhaust 1 1/2"
Belt pulley: Diam. 16 3/4" Face 9" R.P.M. 645
Magneto Own Model F6
Carburetor Zenith Model 50-AY12 Size 1 1/2"
Governor Own Type Centrifugal
Air Cleaner Own Type Oil-washed, wire-filter
Lubrication Pressure

CHASSIS: Type 4 wheels, 2 drivers Serial No. WKC4625 Drive Enclosed gear
Clutch Own Type Single-plate, dry Operated by Foot pedal
Advertised speeds, miles per hour: First 2.375 Second 3.125
Third 3.625 Reverse 2.25
Drive wheels: Diam. 50" Face 12"
Lugs: Type Spade No. per wheel 32 Size 5" high x 3 1/2" face
Extension rims: Width 6" Lugs per rim 16
Size lugs 5" high x 3 1/2" face
Seat Pressed steel
Total weight as tested (with operator) 7625 pounds.

FUEL AND OIL: Fuel Distillate Weight per gallon 6.93 pounds.
Oil S.A.E. Viscosity No. 40
Total oil to motor 2.719 gallons
Total drained from motor 2.046 gallons
Total time motor was operated 63 hours

UNIVERSITY OF NEBRASKA - AGRICULTURAL ENGINEERING DEPARTMENT
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No repairs or adjustments.

REMARKS

All results shown on page 1 of this report were determined from observed data and without allowances, additions or deductions. Tests B and F were made with carburetor set for 100% maximum horsepower. These figures were used in determining the ratings recommended by the A.S.A.E. and S.A.E. tractor rating codes. Tests C, D, E, G and H were made with an operating setting of the carburetor (selected by the manufacturer) of 97.5% of maximum horsepower.

Observed maximum horsepower (tests B & F) Drawbar 35.22 Belt 49.76

Sea level (calculated) maximum horsepower Drawbar 37.79 Belt 52.70
(Based on 60° F. and 29.92" Hg.)Highest permissible horsepower ratings Drawbar 28.34 Belt 44.80
(As recommended by A.S.A.E. and S.A.E.
codes)

We, the undersigned, certify that the above is a true and correct report of official tractor test No. 269.

Carlton L. Zink
Engineer-in-chargeE. E. BrackettC. W. SmithL. W. Hurlbut
Board of Tractor Test Engineers