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January 1920

Test 018: Fordson

Nebraska Tractor Test Lab

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UNIVERSITY FARM, LINCOLN

AGRICULTURAL ENGINEERING DEPARTMENT

UNIVERSITY FARM, LINCOLN

orig.

Report of Official Tractor Test No. 18

Dates of test June 2 to June 12, 1969

Name, model and rating of tractor Fordson

Serial No. Engine 96100

Serial No. Chassis _____

Manufacturer Ford Motor Co., of Delaware, Detroit, MI

Tractor equipment used Fordson Special Mag; Holly Fordson Special Carb.

Style and dimensions of wheel lugs Angle 2" x 3" high x 15".

Brake Horse Power Tests

Horse Power Developed	Crank Shaft Speed R. P. M.	Length of Test Min.	Fuel Consumption			Water Consumption Gallons per Hour			Temperature of Cooling Fluid Deg. F.	Temperature of Atmosphere Deg. F.	Humidity %	Barometric Pressure Inches Mercury
			Kind of Fuel	Amount Used per Hour Gallons	Horse Power Hours per Gallon	In Radiator	In Fuel Mixture	Total				
RATED LOAD TEST												
18.16	993	120	Kero	2.48	7.32	3.50	0.50	4.00	210	91	62	28.6
Belt slippage 0.48%												
VARYING LOAD TEST												
18.37	1005	10	Kero									
18.70	1007	10	"									
0.86	996.5	10	"									
4.63	997	10	"									
9.32	1004.5	10	"									
13.94	1004.5	10	"									
10.96	1002	60	Kero	2.18	5.03	2.00	0.13	2.13	207	83	70	28.6
MAXIMUM LOAD TEST												
19.15	1014	60	Kero	3.00	6.38	3.00	0.35	3.35	209	91	55	28.65
Belt slippage 0.70%												
HALF LOAD TEST												
9.32	1005	60	Kero	1.61	5.77	1.00	0.14	1.14	209	88	70	28.6
Belt slippage 1.12%												

* Taken in discharge line from engine.

Remarks Kerosene used in this test weighed 6.74 lbs per gallon. This tractor is not equipped with a governor, In the varying load test the throttle was adjusted to give about the right speed for each load.

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Drawbar Horse Power Tests

Horse Power Developed	Draw Bar Pull Pounds	Speed Miles per Hour	Crank Shaft Speed R. P. M.	XX Slippage of Drive Wheels %	Fuel Consumption			Water Used per Hour Gallons	*Temperature of Cooling Fluid Deg. F.	Temperature of Atmosphere Deg. F.	Average Humidity %	Barometer Pressure Inches Mercury
					Ind. of Fuel Used	Amount Used per Hour Gallons	Horse Power Hours per Gallon					
RATED LOAD TEST. TEN HOURS (10 Hr., 12 min.)												
6.06	886	2.57	1060	23.8	Kero	2.48	2.45	2.10	209	89	41	28.7
MAXIMUM LOAD TEST (1st 173.6 ft; 2nd 160.6 ft.)												
8.26	1428	2.17	1006	30.9	Kero	--- Not recorded ---			166	82	48	28.7
9.34	2187	1.60	1479	36.1	Kero	--- Not recorded ---			212	83	48	28.7

*Taken in discharge line from engine.

Remarks **For computing slippage, the circumference of drive wheels was taken at points of lugs. The ten-hour test and the first maximum test were made with the tractor in intermediate gear, the second maximum test with the tractor in low gear.

Oil Consumption:

During the complete test consisting of about 34 hours running the following oil was used:

For the engine, 3-3/4 gallons of Hermoline Extra Heavy

For the transmission, 3 gallons of Herring Motor Co., Worm Oil put in at start of test

Report of Official Tractor Test No. 18.

Repairs and Adjustments. Endurance:

Valves were ground after 12 hours run.

One spark plug was cleaned.

Repairs necessary during this test do not indicate any important mechanical defect.

At the end of the test the tractor was in good condition. There was no indication of undue wear in any part nor of any weakness which might require early repairs.

Brief Specifications Fordson Tractor.

Engine: Four cylinder, vertical L-head. Bore 4", stroke 5",
Rated speed 1000 r.p.m.

Chassis: Four wheel. Rated speeds: Low 1.34 mi. per hr.,
intermediate 2.70 mi. per hr., high 6.83 mi. per hr.

General Remarks:

In the advertising literature submitted with the application for test of this tractor we find some statements and claims which cannot be directly compared with the results of this test as reported above. It is our opinion that none of these statements or claims are unreasonable or excessive.

We, the undersigned, certify that above is a true and correct report of Official Tractor Test No. 18.

Claude K. Shedd

Engineer-in-Charge

Oscar W. Sjogren

E.E. Brackett

Fred R. Nohavec

Board of Tractor Test Engineers