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# UNIVERSITY OF NEBRASKA - AGRICULTURAL ENGINEERING DEPARTMENT AGRICULTURAL COLLEGE, LINCOLN

Report of Official Tractor Test No. 339

Dates of test: April 9 to 18, 1940.

Name and model of tractor: FORD-FERGUSON SYSTEM 9N

Manufacturer: Ferguson-Sherman Manufacturing Corporation, Dearborn, Michigan.

Manufacturer's rating: NOT RATED.

### BELT HORSEPOWER TESTS

н. Р.		Crank shaft			Fu	el Consum	nptic	on 🌽		Water	:	Ter Deg	-		:	Barometer
	:	speed	:	Gal.	:	н. Р.	1	Lb. per		gal.	:	Cool-	:		: ]	nohes of
		R.P.M.	:	per		hr. per	:	н. Р.		per	:	ing	:	Air	ıñ.	eroury
	:		:	hr.		gal.		hr.	:	hr.	:	med.			:	
				TES	T B	- 100% N	AXI	IUM LOAD -	TW	O HOURS	3					
23.56	:	2000	1	2.434	1	9.68	1	0.623	:	0.000	:	183	1	55	:	29.390
		rig tass		TEST	c -	OPERATIN	IG MA	XIMUM LOAD	-	ONE HO	DUE	1		74		
23.07	1	2001	:	2.368	1	9.74	1	0.619	1	0.000	1	179	1	51	:	29.410
		San lak				*TEST	D .	- ONE HOUR								
20.24	:	1996	1	2.310	:	8.76	:	0.688	:	0.000	:	171	1	51	:	29.390
20.24	V also the	1996 EST E -	; VA		OAD		; ours	0.688 (20 minute	_		-		-	-	-	
20.24	TE		VA		OAD		: DURS		_		-		-	-	-	
	TE	est e -	VA	RYING L	: OAD	- TWO HO		(20 minute	_	uns; le	-	line	-	vera	-	
20.14	TE:	EST E -	VA:	RYING L	OAD	- TWO HO		(20 minute	r	uns; 1	-	line	a	verag	-	
20.14	TE:	1985 2172	VA	2,301 1.199	OAD	- TWO HO	1	0.690 3.427	r	uns; le	-	171 135	a	50 50	-	
20.14 2.11 10.62	TE:	1985 2172 2105	VA	2,301 1,199 1,682	OAD	- TWO HO 8.75 1.76 6.31	1 1	0.690 3.427 0.955	1 1 1		-	171 135 146	a :	50 50 48	-	  
20.14 2.11 10.62 22.14	TE:	1985 2172 2105 1872	: VA : : :	2.301 1.199 1.682 2.264	CAO	- TWO HO 8.75 1.76 6.31 9.78	1 1 1	0.690 3.427 0.955 0.617	1 1 1	le	-	171 135 146 178	a :	50 50 48 51	-	  

#### DRAWBAR HORSEPOWER TESTS

-	:	Draw	;	Speed	1:	Crank	:	Slip :	Fuel	Con	sump	tion	:Wate:		Te	em	p.	:	
H. P.																			Barometer
	:	pull	:	per		speed	:	drive:	Gal.	: hr	. :	per	:gal.	:0	ool.	-:		:1	nches of
	17	ounds	:	hr.	:	R.P.M.	:W	heels:	per	: pe		H.P.	; per	:1	ing	1	Air	:h	ercury
	1		:		1		:	%:	hr.	ga:	1. :	hr.	:hr.	:11	ned.	1		:	
				1	re	ST F -	10	XAM %O	IMUM L	OAD .	- 8	econd	GE	AR					
16.31	1	2146	:	2.85	:	1400	:	13.55:		Not	Rec	orded		1	182	1	53	:	28.690
	B					TI	ST	G - 0	PERATI	NG M	AXIM	UM LO.	AD						
12.61	:	2236	:	2.11	:	1403	1	17.33:		Not	Rec	orded		1	169	:	43	1	28.670
15.92	:	2101	1	2.84	:	1404	:	14.46:		11		11		:	198	:	67	:	28.490
17.02	:	872	:	7.32	1	1399	:	4.45:		11		"		1	187	1	57	1	28.740
						*TEST	H	- TEN	HOURS	- 1	Seco	nd -	GEAR						
_	_	3500	_	9 00	-	3200	9400	0 70.	1 610	. 77 (	E .	0 750	-0 00/	2-	3.70	-	20		28.855

Lester F. Larsen Tractor Test and Power Museum - http://tractormuseum.unl.edu

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### Report of Official Tractor Test No. 339

FUEL,	, OIL	, AND TIME						
	Fuel		Gasoli	ne Oct	tane	Weight pe	r gallon 6	•03 pounds
	011:	S.A.E. No.		tor 1.413	gal.	Drained f	rom motor _	1.065 gal.
BRIE		time motor	was operated	d 64	hours			
	Adve	rtised speed	s miles per l	hour: First	2	.51	Second _	3.23
				Third	7	.48	Reverse	2.69
	Belt	pulley: Di	am. 9.0"	Face 6.5	R.P.M	1358	Belt Speed	3199 f.p.m.
	Clut	oh: Make _	Long	Type Dry	plate	Operat	ed by	foot
	Seat	Press	ed steel					
		l weight as	tested (With	operator)	3375	pounds		
MOTO		Own	Serial No.	9N 128	340	Type _	4 cylinder	r, vertical
	Head	L	Mounting (	Crankshaft !	lengthwise	Lub	rication	Pressure
	Bore	and stroke	3-3/16" x	3-3/4"	Rated R.	P.M. (Draw (Belt	bar	1400
			lves: Inlet					
			6 volt bat					
	Gener	rator: Make	Own	8	tarter:	Make	0	m
			e Marvel-So					
	Gover	rnor: Make	Novi		Type	Variable s	peed, centri	ifugal
	Air (	Cleaner: Ma	ke Unite	ed	Туре	Oil-washed	crimped win	re filter
	011	filter: Mak	e Ford-Fre	am	Type	Renewable	waste pack	element
		ing medium t	emperature co	ontrol:	Dole	thermostat		
CHASS		Standar	d (	Serial No	9N 12	840	Drive Er	nolosed gear
	Tread	i width: Re	ar 48" - '	76*		_ Front _	48" - 76"	
								ssure 12 Pounds
	Front	t tires: No.	2 Size	4.00 x 19	- 4 ply		_ Air pres	ssure 26 Pounds
	Added	d weight: P	er rear tire	- Calcium C	hloride S	olution	151	Pounds

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#### REPAIRS AND ADJUSTMENTS

No repairs or adjustments.

#### REMARKS

1. 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 belt horsepower and data from these tests were used in determining the horsepower to be developed in tests D and H, respectively. Tests C, D, E, G, and H were made with an operating setting of the carburetor (selected by the manufacturer) of 98.7% of maximum belt horsepower.

2.	Observed maximum horsepower (tests F & B)	16.31	23.56
3.	Sea level (calculated) maximum horsepower (based on 60° F. and 29.92" Hg.)	16.90	23.87
4.	Seventy-five per cent of calculated max- imum drawbar horsepower and eighty-five per cent of calculated maximum belt horse- power (formerly A.S.A.E. and S.A.E. ratings)	12.68	20.29

We, the undersigned, certify that the above is a true and correct report of official tractor test No. 339.

Engineer-in-charge	
	Board of Tractor Test Engineers