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Test 932: Ford 5000 8-Speed (Gasoline)

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NEBRASKA TRACTOR TEST 932 - FORD 5000 8-SPEED GASOLINE

		PO	WER	TAF	(E-O)	FF PER	FORM	1AN	C E			
Нр		Crank-	Fuel Consumpt		ion		Temperatur		re Degrees F		Barometer	
		shaft Gal Li speed per pe rpm hr hp-		r per		Cooling wet medium bulb		dry		inches of Mercury		
		MAXI	MUM :	POWI	ER AN	ID FUEL	CONS	UMPT	TION			
60.37		2101	Rated E. 5.116 0.		gine S	peed-Tv 11.80	vo Hour 194	rs 56		5	29.183	
		Stand	lard Power Ta		ke-off	Speed (54	10 rpm)-	-One	Hour			
56.94		1903	4.788	0.9	513	11.89	194	56	7	5	29.147	
	VAR	YING P	OWER	AND	FUEL	CONSU	MPTIO	N-T	WO H	IOUI	RS	
52.78		2160	4.708			11.21	193	57	7	5		
0.00		2314	1.815				185	57		5		
27.39		2243	3.350		746	8.18	190	57		5		
59.88		2102	5.018		511	11.93	195	57		5		
13.78		2257	2.607		154	5.29	187	57	75			
	39.96 2182		3.941			10.14	193	56		4	00.115	
Av 3	2.30	2209	3.573	0.0	075	9.04	191	57		5	29.115	
			DRA	WBA		ERFO						
Draw-		Speed	Crank-	Crank- Slip		onsumption	n	Tem	p Degrees F		Barom-	
Hр	bar	miles	shaft	of drivers	Gal	Lb	Hp-hr	Cool-	Air wet	Air	eter inches of	
	pull lbs	per hr	speed rpm	%	per hr	per hp-hr	per gal	ing med	bulb	dry bulb		
VAR	YING D	RAWBA	R POV	VER A	AND I	FUEL CO	NSUMI	TION	ı wı	гн в	BALLAST	
						wer—Two						
50.85	4352	4.38	2105	5.93	4.98		10.20	188	52	64	28.843	
		75% of	Pull at	Maxi	mum	Power-T	en Hou	rs—4th	Gear			
41.51	3361	4.63	2200	4.87	4.47		9.28	195	38	38	28.516	
28.78	2269	4.76	2222	3.22	3.69	Power−T 4 0.783	7.79	18 –4 ti 183	i Gear 55	70	28.780	
40.76	2203	4.70	4444	3.44	3.03	1 0.703	1.13	103	- 33		20.700	
			MAXIN	1UM	POWI	ER WIT	H BALL	AST				
33.62		1.78	2213	12.74	2nd	Gear		182	55	75	28.990	
50.78		3.11	2099	8.61		Gear		188	46	54	28.910	
52.27		4.37	2101	5.93	4th	Gear		186	46	54	28.910	
53.09		5.29	2099	4.98	5th	Gear		188	48	56	28.900	
52.41		6.68	2103	3.95	6th	Gear		186	48	56	28.900	
48.36	1516	11.96	2099	1.60	7th	Gear		188	55	70	28.750	
		M	AXIMU	м РО	WER	WITHO	OUT BA	LLAS	Г			
49.36	4437	4.17	2099	11.03	4th	Gear		190	46	54	29.180	
VARY	YING D	RAWBA	R PUL	L AN	D TR	AVEL SP	EED W	ITH I	BALLA	AST-	-4th Gear	
Pounds pull			4483		4721	4721 4867		4898		4	4670	
Horsepower			52.27		49.13	45.04	39.66		33.21		27.03	
Crankshaft spe		eed, rpi	m 210	1	1882	1677	7 14	69	125	8	1045	
Miles per hour			4.37		3.90	3.47	7 3	.04	2.60		2.17	
Slip o	Slip of drivers, %		5.93		6.18	6.43	3 6	.68	6.43		6.18	
TIRES, BALLAST and WEIGHT					Wit	With Ballast			Without Ballast			
Rear tires			-No, size, ply & psi			Two 16.9-30; 6; 16			Two 16.9-30; 6; 16			
Ballast			-Liquid			885 lb each			None			
Frant ding-			Cast in		0:	880 lb each		. 04	None Two 7 50 16: 4: 90			
Front tires Ballast			—No, si: —Liquio		∝ psı	Two 7.50-16; 4; 24 55 lb each		t, 24	Two 7.50-16; 4; 20 None			
24111111			Cast iron			90 lb each			None			
Height of drawbar						221/2 inches			231/2 inches			
Sta	tic weig	ht with o	ith operator—Rear			7350 lb			3820 lb			
~			Front				2300 lb			2010 lb		
				Tota	ai	9650 1	D		5830	1p		

Department of Agricultural Engineering

Dates of Test: APRIL 13 TO APRIL 21, 1966
Manufacturer: FORD MOTOR COMPANY,
BIRMINGHAM, MICHIGAN

FUEL, OIL and TIME Fuel regular gasoline Octane No Motor 84.5 Research 92.6 (rating taken from oil company's typical inspection data) Specific gravity converted to 60°/60° 0.7325 Weight per gallon 6.098 lb Oil SAE 10W API service classification MS, DM To motor 1.690 gal Drained from motor 1.436 gal Transmission lubricant Ford oil ESNM2C77-A Final drive lubricant Ford Oil ESNM2C53-A Total time engine was operated 44½ hours.

ENGINE Make Ford gasoline Type 4 cylinder vertical Serial No RG108939M95 Crankshaft mounted lengthwise Rated rpm 2100 Bore and stroke 4.2" x 4.2" Compression ratio 8.0 to 1 Displacement 233 cu in Carburetor size 15/16" Ignition system battery Cranking system 12 volt electric Lubrication pressure Air cleaner oil washed wire mesh Oil filter full flow replaceable paper element Fuel filter edge type filter in sediment bowl Muffler was used Cooling medium temperature control thermostat.

CHASSIS Type standard Serial No C124306 Tread width rear 52" to 80" front 52" to 80" Wheel base 87.5" Center of gravity (without operator or ballast, with minimum tread, with fuel tank filled and tractor serviced for operation) Horizontal distance forward from center-line of rear wheels 27.30" Vertical distance above roadway 32.95" Horizontal distance from center of rear wheel tread 0.02" to the right Hydraulic control system direct engine drive Transmission selective gear fixed ratio Advertised speeds mph first 1.5 second 2.0 third 3.5 fourth 4.7 fifth 5.6 sixth 7.0 seventh 12.4 eighth 16.8 reverse 2.3 and 8.1 Clutch single plate dry disc operated by foot pedal Brakes wet multiple disc operated by two foot pedals which can be locked Steering mechanical with power assist Turning radius (on concrete surface with brake applied) right 111" left 111" (on concrete surface without brake) right 141" left 141" Turning space diameter (on concrete surface with brake) right 249" left 249" (on concrete surface without brake) right 294" left 294" Belt pulley 1072 rpm at 2050 engine rpm diam 11" face 6.5" Belt speed 3087 fpm Power take-off 540 rpm at 1900 engine rpm.

REPAIRS and ADJUSTMENTS No repairs or adjustments.

REMARKS All test results were determined from observed data obtained in accordance with the SAE and ASAE test code.

First gear was not run as it was necessary to limit the pull in second gear because of the stability formula. Eighth gear was not run because it exceeded 15 mph.

We, the undersigned, certify that this is a true and correct report of official Tractor Test 932.

L. F. LARSEN

Engineer-in-Charge

G. W. STEINBRUEGGE, Chairman

J. J. SULEK

D. E. LANE

Board of Tractor Test Engineers

The University of Nebraska Agricultural Experiment Station E. F. Frolik, Dean; H. H. Kramer, Director, Lincoln, Nebraska