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Test 1864: Massey Ferguson 471 and 573 Diesel 8-peed

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NEBRASKA TRACTOR TEST 1864 MASSEY FERGUSON 471 DIESEL ALSO MASSEY FERGUSON 573 DIESEL 8 SPEED

POWER	TAKE-OFF	PERFORMANCE
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Power HP (kW)	Crank shaft speed rpm	Gal/hr (<i>l/h</i>)	lb/hp.hr (kg/kW.h)	Hp.hr/gal (kW.h/l)	Mean Atmospheric Conditions
	MA	XIMUM	POWER	AND FUI	EL CONSUMPTION
		Rate	d Engine Sp	eed—(PTO s	peed—622 rpm)
64.28	2200	4.27	0.469	15.05	•
(47.94)		(16.17)	(0.285)	(2.96)	
			Maxir	num Power (1 hour)
66.23	2100	4.33	0.461	15.29	
(49.39)		(16.40)	(0.281)	(3.01)	
		Star	dard Power	Take-off Sp	eed - (540 rpm)
64.17	1909	4.13	0.454	15.52	(1 /
(47.85)		(15.65)	(0.276)	(3.06)	
RYING	POWE.	R AND F	UEL CON	SUMPTIO	<u>N</u>
64.28	2200	4.27	0.469	15.05	Air temperature
(47.94)		(16.17)	(0.285)	(2.96)	^
55.48	2223	3.83	0.487	14.49	81°F (27°C)
(41.37)		(14.50)	(0.296)	(2.85)	, ,
41.71	2247	3.08	0.520	13.55	Relative humidity
(31.10)		(11.65)	(0.316)	(2.67)	,
28.07	2268	2.43	0.609	11.57	 55%
(20.93)		(9.18)	(0.371)	(2.28)	55,0
	9909	1.84	0.916	7.70	Panamat
14.19	2292				Barometer
		(6.98)	(0.557)	(1.52)	
(10.58)					
0.93 (0.70)	2310	1.35	10.188	0.69	29.04"Hg (98.34kPa)

Maximum torque 203 lb.-ft. (275 Nm) at 1053 rpm Maximum torque rise - 31.9%

Torque rise at 1799 rpm - 20%

TRACTOR SOUND LEVEL WITHOUT CAB	dB(A)
At no load in 4th(4L) gear	94.1
Bystander	

TIRES AND WEIGHT

Rear Tires-No., size, ply & psi (kPa)
Front Tires-No., size, ply & psi (kPa)
Height of Drawbar
Static Weight with operator-Rear
- Front
- Total

Tested Without Ballast

Two 16.9-30; 8;16 (110) Two 9.5L-15; 6; 32 (220) 18.0 in (455 mm) 3880 lb (1760 kg) 2305 lb (1046 kg) 6185 lb (2806 kg) **Location of tests:** Nebraska Tractor Test Laboratory, University of Nebraska, Lincoln Nebraska 68583-0832

Dates of tests: October 31- November 3, 2005

Manufacturer: AGCO Corporation, 4205 River Green Parkway, Duluth, Georgia 30096

FUEL, OIL and TIME: Fuel No. 2 Diesel Specific gravity converted to $60^{\circ}/60^{\circ}$ F $(15^{\circ}/15^{\circ}C)$ 0.8468 Fuel weight 7.051 lbs/gal (0.845~kg/l) Oil SAE 15W40 API service classification CF-4 Transmission and hydraulic lubricant AGCO Power Fluid 821 XL fluid Total time engine was operated 7.5 hours

ENGINE: Make Perkins Diesel Type four cylinder vertical Serial No. RE37827*B505650M* Crankshaft lengthwise Rated engine speed 2200 Bore and stroke 4.134" x 5.00" (105.0 mm x 127.0 mm) Compression ratio 19.3 to 1 Displacement 268 cu in (4400 ml) Starting system 12 volt Lubrication pressure Air cleaner two paper elements Oil filter one full flow cartridge Fuel filter one paper element and water separator Muffler vertical Cooling medium temperature control one thermostat

ENGINE OPERATING PARAMETERS: Fuel rate: 28.9 - 31.3 lb/h (13.1 - 14.2 kg/h) High idle: 2300 - 2400 rpm

CHASSIS: Type Standard Serial No. 9363BP32086 **Tread width** rear 61.4" (1560 mm) to 88.1" (2238 mm) front 59.1" (1500 mm) to 83.5" $(2120 \, mm)$ Wheelbase 90.2" $(2350 \, mm)$ Hydraulic control system direct engine drive Transmission selective gear fixed ratio Nominal travel speeds mph (km/h) first 1.33 (2.14) second 1.95 (3.14) third 3.58 (5.76) fourth 4.39 (7.07) fifth 5.33 (8.58) sixth 7.82 (12.59) seventh 14.33 (23.06) eighth 17.56 (28.26) reverse 1.81 (2.92), 7.25 (11.67) Clutch single dry disc operated by foot pedal Brakes multiple wet disc hydraulically operated by two foot pedals which can be locked together Steering hydrostatic Power take-off 540 rpm at 1908 engine rpm Unladen tractor mass 6010 lb (2726 kg)

THREE POINT HITCH PERFORMANCE (OECD Static Test)

CATEGORY: II

Quick Attach: None

Maximum force exerted through whole range: 3391 lbs (15.1 kN)

i) Opening pressure of relief valve:

Sustained pressure of the open relief valve: ii) Pump delivery rate at minimum pressure

and rated engine speed:

iii) Pump delivery rate at maximum

hydraulic power: Delivery pressure: Power:

<u>Auxiliary pump</u> 2575 psi (178 bar)

10.0 GPM (37.9 l/min)

8.9 GPM (33.7 l/min) 1804 psi (124 bar) 9.4 HP (7.0 kW)

THREE POINT HITCH PERFORMANCE

2750(190) Observed maximum pressure psi. (bar) Location: lift cylinder Hydraulic oil temperature: °F(°C) 144(62) Location: hydraulic valve Category: Quick attach: none

SAE Static Test—System pressure 2385 psi (164 Bar)

Hitch point distance to ground level in. (mm)8.0(203)	15.0 (381)	22.0 (559)	29.0 (737)	36.0(914)
Lift force on frame lb	4007	4147	4227	4102	3947
" " " " " " (kN)	(17.8)	(18.4)	(18.8)	(18.2)	(17.6)

	SAE test		OEC	D test
	inch	mm	inch	mm
A	28.5	724	29.7	754
В	10.5	267	10.5	267
C	12.0	304	12.0	304
D	9.1	232	9.1	232
E	8.0	204	8.0	204
F	8.4	212	8.4	212
G	27.4	695	27.4	695
Н	3.7	95	3.7	95
I	6.9	175	6.9	175
J	19.0	483	19.0	483
K	19.1	484	19.1	484
L	36.3	922	36.3	922
M	24.5	622	24.5	622
N	37.7	958	37.7	958
O	8.0	203	8.0	203
P	38.0	965	43.0	1093
Q	35.8	909	35.8	909
R	26.0	660	26.0	660

REPAIRS AND ADJUSTMENTS: No repairs or adjustments.

REMARKS: All test results were determined from observed data obtained in accordance with official OECD, SAE and Nebraska test procedures. This tractor did not meet the manufacturer's remote flow claim of 11.2 GPM (42.4 lpm) with auxiliary pump. The manufacturers claim of 15.5 GPM (58.6 lpm) with auxiliary and lift pumps combined was not verified. For the maximum power tests, the fuel temperature at the injection pump inlet was maintained at 147°F

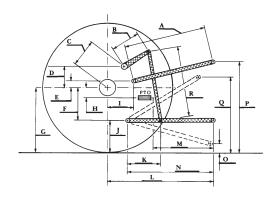
Report reissued: Supplemental sales permit for Massey Ferguson 573 Diesel, October, 2006.

We, the undersigned, certify that this is a true and correct report of official Tractor Test No. 1864, November 3, 2006.

Roger M. Hoy Director

> M.F. Kocher V.I. Adamchuk J.A. Smith **Board of Tractor Test Engineers**

HITCH DIMENSIONS AS TESTED - NO LOAD





MASSEY FERGUSON 471 Diesel