

SUMMARY OF OECD TEST 2536-NEBRASKA SUMMARY 698 MASSEY FERGUSON 6480 DIESEL 24 SPEED

Tractor chassis S/N S045061 and higher

POWER TAKE-OFF PERFORMANCE

Power HP (kW)	Crank shaft speed rpm	Gal/hr (l/h)	lb/hp.hr (kg/kW.h)	Hp.hr/gal (kW.h/l)	Mean Atmospheric Conditions
MAXIMUM POWER AND FUEL CONSUMPTION					
Rated Engine Speed—(PTO speed—1083 rpm)					
132.5 (98.8)	2200	8.21 (31.08)	0.441 (0.268)	16.14 (3.18)	
Standard Power Take-off Speed(1000rpm)					
144.8 (108.0)	2030	8.25 (31.23)	0.405 (0.247)	17.56 (3.46)	
Maximum Power (1 hour)					
146.3 (109.1)	2000	8.28 (31.36)	0.403 (0.245)	17.66 (3.48)	

VARYING POWER AND FUEL CONSUMPTION

132.5 (98.8)	2200	8.21 (31.08)	0.441 (0.268)	16.14 (3.18)	Air temperature
112.9 (84.2)	2206	7.52 (28.48)	0.473 (0.288)	15.02 (2.96)	70°F (21°C)
85.6 (63.8)	2217	6.16 (23.31)	0.512 (0.312)	13.89 (2.74)	Relative humidity
57.3 (42.7)	2227	4.56 (17.26)	0.567 (0.345)	12.56 (2.47)	46%
28.7 (21.4)	2240	2.95 (11.17)	0.731 (0.445)	9.72 (1.92)	Barometer
--	2248	1.81 (6.87)	--	--	30.3" Hg (102.6 kPa)

Maximum Torque - 466.5 lb.-ft. (632.5 Nm) at 1400 rpm
Maximum Torque Rise - 47.5%
Torque rise at 1750 engine rpm - 37%

DRAWBAR PERFORMANCE (Unballasted - Front Drive Engaged) FUEL CONSUMPTION CHARACTERISTICS

Power Hp (kW)	Drawbar pull lbs (kN)	Speed mph (km/h)	Crank- shaft speed rpm	Slip %	Fuel Consumption lb/hp.hr (kg/kW.h)	Hp.hr/gal (kW.h/l)	Temp. °F (°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
Maximum Power—12th(3A) Gear									
95.5 (71.2)	6585 (29.3)	5.44 (8.75)	2198	4.7	0.573 (0.348)	12.39 (2.44)	181 (83)	59 (15)	29.9 (101.3)
75% of Pull at Maximum Power—12th(3A) Gear									
73.1 (54.5)	4945 (22.0)	5.54 (8.92)	2208	3.5	0.607 (0.369)	11.68 (2.30)	180 (82)	61 (16)	29.9 (101.3)
50% of Pull at Maximum Power—12th(3A) Gear									
49.8 (37.1)	3325 (14.8)	5.62 (9.04)	2216	2.3	0.716 (0.435)	9.91 (1.95)	174 (79)	61 (16)	29.9 (101.3)
75% of Pull at Reduced Engine Speed—14th(3B) Gear									
73.0 (54.4)	4945 (22.0)	5.54 (8.91)	1840	4.2	0.556 (0.338)	12.75 (2.51)	176 (80)	61 (16)	29.9 (101.3)
50% of Pull at Reduced Engine Speed—14th(3B) Gear									
50.2 (37.4)	3350 (14.9)	5.62 (9.04)	1854	3.2	0.568 (0.346)	12.49 (2.46)	171 (77)	61 (16)	29.9 (101.3)

Location of tests: Groupement d'Antony, Parc de Touvoie, BP 44 Antony, France 92163

Dates of tests: August - October, 2009

Manufacturer: AGCO S.A. BP 307, Avenue Blaise Pascal, 60026 Beauvais, France

FUEL and OIL: Fuel No. 2 Diesel **Specific gravity converted to 60°/60°F (15°/15°C)** 0.855 **Fuel weight** 7.12 lbs/gal (0.853 kg/l) **Oil SAE** 15W40 **API service classification** CH4 **Transmission and hydraulic lubricant** BP Terrac Tractan 9 10W/40 **Front axle lubricant** BP Terrac Tractan 9 10W/40

ENGINE: Make Perkins Diesel **Type** six cylinder vertical with turbocharger and air to air intercooler **Serial No.** U018654S **Crankshaft** lengthwise **Rated engine speed** 2200 **Bore and stroke** 4.134" x 5.000" (105.0 mm x 127.0 mm) **Compression ratio** 16.2 to 1 **Displacement** 402 cu in (6600 ml) **Starting system** 12 volt **Lubrication** pressure **Air cleaner** two paper elements **Oil filter** one full flow cartridge **Oil cooler** engine coolant heat exchanger for crankcase oil, radiator for hydraulic and transmission oil **Fuel filter** one paper element **Muffler** underhood **Exhaust** vertical **Cooling medium temperature control** thermostat and variable speed fan

CHASSIS: Type front wheel assist **Serial No.** T352044 **Tread width** rear 61.7" (1566 mm) to 74.6" (1896 mm) front 63.4" (1610 mm) to 78.1" (1984 mm) **Wheelbase** 109.4" (2780 mm) **Hydraulic control system** direct engine drive **Transmission** selective gear fixed ratio with partial (6) range operator controlled powershift **Nominal travel speeds mph (km/h)** first 1.01 (1.62) second 1.21 (1.95) third 1.42 (2.29) fourth 1.71 (2.75) fifth 2.01 (3.24) sixth 2.42 (3.90) seventh 2.73 (4.39) eighth 3.27 (5.27) ninth 3.85 (6.19) tenth 4.63 (7.45) eleventh 5.44 (8.76) twelfth 5.54 (8.91) thirteenth 6.55 (10.54) fourteenth 6.66 (10.71) fifteenth 7.81 (12.57) sixteenth 9.40 (15.12) seventeenth 11.05 (17.79) eighteenth 12.76 (20.54) nineteenth 13.30 (21.40) twentieth 15.35 (24.70) twenty-first 18.01 (28.99) twenty-second 21.67 (34.88) twenty-third 24.86 (40.00) twenty-fourth 24.86 (40.00) reverse 1.01 (1.62), 1.21 (1.95), 1.42 (2.29), 1.71 (2.75), 2.01 (3.24), 2.42 (3.90), 2.73 (4.39), 3.27 (5.27), 3.85 (6.19), 4.63 (7.45), 5.44 (8.76), 5.54 (8.91), 6.55 (10.54), 6.66 (10.71), 7.81 (12.57), 9.40 (15.12), 11.05 (17.79), 12.76 (20.54), 13.30 (21.40), 15.35 (24.70), 18.01 (28.99), 21.67 (34.88), 24.86 (40.00), 24.86 (40.00)

DRAWBAR PERFORMANCE
(Unballasted - Front Drive Engaged)
MAXIMUM POWER IN SELECTED GEARS

Power Hp (kW)	Drawbar pull lbs (kN)	Speed mph (km/h)	Crank- shaft speed rpm	Slip %	Fuel Consumption lb/hp.hr (kg/kW.h)	Consumption Hp.hr/gal (kW.h/l)	Temp. °F(°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
4th(1D) Gear									
51.9 (38.7)	12925 (57.5)	1.51 (2.42)	2213	15.1	0.735 (0.447)	9.64 (1.90)	169 (76)	59 (15)	29.9 (101.3)
5th(1E) Gear									
60.9 (45.4)	12815 (57.0)	1.78 (2.86)	2198	14.4	0.687 (0.418)	10.33 (2.04)	169 (76)	59 (15)	29.9 (101.3)
6th(1F) Gear									
72.0 (53.7)	12590 (56.0)	2.14 (3.45)	2195	13.5	0.643 (0.391)	11.03 (2.17)	163 (73)	59 (15)	29.9 (101.3)
7th(2A) Gear									
82.2 (61.3)	12725 (56.6)	2.42 (3.90)	2192	13.3	0.594 (0.361)	11.94 (2.35)	167 (75)	59 (15)	29.9 (101.3)
8th(2B) Gear									
95.2 (71.0)	12085 (53.8)	2.95 (4.76)	2185	12.4	0.554 (0.337)	12.79 (2.52)	172 (78)	59 (15)	29.9 (101.3)
9th(2C) Gear									
103.4 (77.1)	12365 (55.0)	3.14 (5.05)	2001	13.4	0.508 (0.309)	13.96 (2.75)	174 (79)	59 (15)	29.9 (101.3)
10th(2D) Gear									
110.5 (82.4)	10375 (46.2)	3.99 (6.43)	2002	8.9	0.524 (0.319)	13.54 (2.67)	172 (78)	59 (15)	29.9 (101.3)
11th(2E) Gear									
108.4 (80.8)	8465 (37.6)	4.80 (7.73)	2009	5.9	0.498 (0.303)	14.25 (2.81)	176 (80)	59 (15)	29.9 (101.3)
12th(3A) Gear									
122.2 (91.1)	9495 (42.2)	4.82 (7.76)	1999	7.1	0.480 (0.292)	14.77 (2.91)	185 (85)	59 (15)	29.9 (101.3)
13th(2F) Gear									
109.2 (81.4)	7015 (31.2)	5.84 (9.40)	2000	5.4	0.463 (0.281)	15.33 (3.02)	181 (83)	59 (15)	29.9 (101.3)
14th(3B) Gear									
122.2 (91.1)	7825 (34.8)	5.86 (9.43)	1991	6.3	0.471 (0.287)	15.06 (2.97)	185 (85)	61 (16)	29.9 (101.9)
15th(3C) Gear									
122.7 (91.5)	6600 (29.4)	6.97 (11.22)	2000	4.7	0.472 (0.287)	15.02 (2.96)	181 (83)	61 (16)	29.9 (101.3)
*16th(3D) Gear									
122.0 (91.0)	5575 (24.8)	8.21 (13.22)	2004	7.0	0.463 (0.281)	15.33 (3.02)	183 (84)	61 (16)	29.9 (101.3)
*17th(3E) Gear									
117.7 (87.8)	4510 (20.1)	9.79 (15.75)	2005	6.3	0.492 (0.299)	14.42 (2.84)	185 (85)	61 (16)	29.9 (101.3)

*Front Drive Disengaged

Clutch multiple wet disc operated by foot pedal
Brakes multiple wet disc hydraulically operated by two foot pedals that can be locked together
Steering hydrostatic **Power take-off** 540 rpm at 1982 engine rpm or 1000 rpm at 2030 engine rpm
Unladen tractor mass 13710 lb (6220 kg)

NOTE 1: The engine on this tractor is electronically controlled to give 2 power levels. A "boosted" level is available when the PTO is engaged, tractor stationary, and when the tractor is operated in ranges 3 and 4.

NOTE 2: The performance figures on this report apply to tractors with chassis S/N S045061 and higher.

NOTE 3: The performance figures on this report are the result of replacing the electronic engine control module of the Massey Ferguson 6475 with the Massey Ferguson 6480 module.

REPAIRS AND ADJUSTMENTS: No repairs or adjustments

REMARKS: All test results were determined from observed data obtained in accordance with official OECD test procedures. The performance figures on this summary were taken from a test conducted under the OECD Code 2 test procedure.

We, the undersigned, certify that this is a true summary of data from OECD Report No. **2536**, Nebraska Summary 698, June 1, 2010.

Roger M Hoy
 Director

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 Board of Tractor Test Engineers

TIRES, BALLAST 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 460/85R38; **; 14(100)
 Two 16.9R28; **; 16(110)
 19.7 in (500 mm)
 8520 lb (3865 kg)
 5355 lb (2430 kg)
 13875 lb (6295 kg)

TRACTOR SOUND LEVEL WITH CAB

dB(A)

At no load in 10th (2D) gear	68.0
Bystander	--

HYDRAULIC PERFORMANCE

CATEGORY: II

Quick Attach: None

OECD Static test

Maximum force exerted through whole range:	9485 lbs (42.2 kN)
i) Sustained pressure of the open relief valve:	2830 psi (195 bar)
ii) Pump delivery rate at minimum pressure:	29.1 GPM (110.0 l/min)
iii) Pump delivery rate at maximum	
hydraulic power:	25.3 GPM (95.7 l/min)
Delivery pressure:	2350 psi (162 bar)
Power:	34.7 HP (25.8 kW)

HITCH DIMENSIONS AS TESTED—NO LOAD

	OECD test		SAE test	
	inch	mm	inch	mm
A	28.3	720	28.1	715
B	11.6	295	11.6	295
C	13.9	354	13.9	354
D	13.0	330	13.0	330
E	9.8	250	11.4	290
F	11.0	280	11.0	280
G	34.4	875	34.4	875
H	2.0	50	2.0	50
I	15.3	389	15.3	389
J	23.4	595	23.4	595
K	21.4	544	21.4	544
L	43.3	1101	43.3	1101
M	24.6	626	24.6	626
N	37.0	940	37.0	940
O	8.3	209	8.1	205
P	47.4	1205	42.4	1077
Q	36.5	928	36.5	926
R	30.7	780	30.8	783

THREE POINT HITCH PERFORMANCE(SAE Static test)

Observed Maximum Pressure psi. (bar)	2830 (195)
Location:	lift cylinder
Hydraulic oil temperature: °F (°C)	154 (68)
Location:	hydraulic sump
Category:	II
Quick attach:	None
System pressure 2560 psi (176 bar)	
Hitch point distance to ground level in. (mm)	10.4 (263) 15.7 (398) 21.5 (545) 27.4 (695) 33.5 (850) 37.0 (940)
Lift force on frame lb	11825 11555 11330 11040 10455 9915
" " " " " " (kN)	(52.6) (51.4) (50.4) (49.1) (46.5) (44.1)

