

SUMMARY OF OECD TESTS 2222 & 2223 NEBRASKA SUMMARY 466

MASSEY FERGUSON 6480 DIESEL

32 SPEED

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—1098 rpm)					
115.7 (86.3)	2196	8.00 (30.29)	0.490 (0.298)	14.47 (2.85)	
Standard Power Take-off Speed (999 rpm)					
122.7 (91.5)	1998	7.84 (29.69)	0.454 (0.276)	15.64 (3.08)	
Maximum Power (2 hours)					
124.0 (92.5)	1797	7.53 (28.50)	0.431 (0.262)	16.47 (3.24)	

VARYING POWER AND FUEL CONSUMPTION

115.7 (86.3)	2196	8.00 (30.29)	0.490 (0.298)	14.47 (2.85)	Air temperature
99.5 (74.2)	2213	7.19 (27.22)	0.512 (0.312)	13.84 (2.73)	68°F (20°C)
74.2 (55.3)	2236	5.88 (22.24)	0.562 (0.342)	12.62 (2.49)	Relative humidity
50.2 (37.4)	2256	4.73 (17.91)	0.669 (0.407)	10.60 (2.09)	53%
26.4 (19.7)	2277	3.50 (13.24)	0.938 (0.570)	7.56 (1.49)	Barometer
--	2292	2.33 (8.81)	--	--	29.6" Hg (100.4 kPa)

Maximum Torque - 402.5 lb.-ft. (545.7 Nm) at 1243 rpm
 Maximum Torque Rise - 45.4%
 Torque rise at 1750 engine rpm - 33%

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—18th(1LC) Gear									
100.2 (74.7)	5190 (23.1)	7.24 (11.65)	2190	3	0.592 (0.360)	11.98 (2.36)	185 (85)	79 (26)	29.9 (101.2)
75% of Pull at Maximum Power—18th(1LC) Gear									
75.4 (56.2)	3890 (17.3)	7.27 (11.70)	2206	2	0.621 (0.378)	11.42 (2.25)	187 (86)	79 (26)	29.9 (101.2)
50% of Pull at Maximum Power—18th(1LC) Gear									
51.5 (38.4)	2605 (11.6)	7.41 (11.93)	2221	2	0.764 (0.465)	9.28 (1.83)	185 (85)	79 (26)	29.9 (101.2)
75% of Pull at Reduced Engine Speed—21st(1LD) Gear									
75.4 (56.2)	3845 (17.1)	7.35 (11.83)	1898	2	0.573 (0.348)	12.39 (2.44)	185 (85)	81 (27)	29.9 (101.2)
50% of Pull at Reduced Engine Speed—21st(1LD) Gear									
51.2 (38.2)	2610 (11.6)	7.36 (11.85)	1910	2	0.691 (0.420)	10.26 (2.02)	187 (86)	81 (27)	29.9 (101.2)

Location of tests: Groupement d'Antony, Parc de Touvoie, BP 44 Antony, Cedex, France 92163
Dates of tests: April - June, 2004

Manufacturer: AGCOS.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)** 0.851
Fuel weight 7.09 lbs/gal (0.850 kg/l) **Oil SAE** 15W40 **API service classification** CH4
Transmission and hydraulic lubricant BP Terrac Tractan 9 fluid **Front axle lubricant** API GL5 - SAE 85W140

ENGINE: Make Perkins Diesel **Type** six cylinder vertical with turbocharger and air to air intercooler
Serial No. 3711 K05 AVS **Crankshaft** lengthwise **Rated engine speed** 2200 **Bore and stroke** 3.937" x 5.00" (100.0 mm x 127.0 mm) **Compression ratio** 17.5 to 1 **Displacement** 365 cu in (5985 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** vertical **Cooling medium temperature control** thermostat and variable speed fan

CHASSIS: Type 2WD and FWA **Serial No.** M127032 **Tread width** rear 54.1" (1375 mm) to 86.8" (2205 mm) front 2WD - 65.4" (1660 mm) to 86.2" (2190 mm), FWA - 62.9" (1597 mm) to 80.0" (2033 mm) **Wheelbase** 2WD - 112.1" (2848 mm) FWA - 109.4" (2780 mm) **Hydraulic control system** direct engine drive **Transmission** selective gear fixed ratio with partial (4) range operator controlled powershift **Nominal travel speeds mph (km/h)** first 1.40 (2.26) second 1.65 (2.65) third 1.94 (3.12) fourth 2.12 (3.41) fifth 2.27 (3.65) sixth 2.48 (3.99) seventh 2.93 (4.71) eighth 3.14 (5.06) ninth 3.43 (5.52) tenth 3.67 (5.91) eleventh 4.34 (6.99) twelfth 4.87 (7.84) thirteenth 5.08 (8.17) fourteenth 5.26 (8.47) fifteenth 5.70 (9.18) sixteenth 6.16 (9.92) seventeenth 6.73 (10.83) eighteenth 7.27 (11.70) nineteenth 7.88 (12.68) twentieth 7.95 (12.79) twenty-first 8.51 (13.69) twenty-second 9.30 (14.97) twenty-third 10.98 (17.67) twenty-fourth 11.77 (18.94) twenty-fifth 12.86 (20.69) twenty-sixth 13.78 (22.17) twenty-seventh 16.26 (26.17) twenty-eighth 18.26 (29.38) twenty-ninth 19.03 (30.63) thirtieth 21.36 (34.38) thirty-first 25.22 (40.59) thirty-second 24.86 (40.00) reverse 1.40 (2.26), 1.65 (2.65), 1.94 (3.12), 2.12 (3.41), 2.27 (3.65), 2.48 (3.99), 2.93 (4.71), 3.14 (5.06), 3.43 (5.52), 3.67 (5.91), 4.34 (6.99), 4.87 (7.84), 5.08 (8.17), 5.26 (8.47), 5.70 (9.18), 6.16 (9.92), 6.73 (10.83), 7.27 (11.70), 7.88 (12.68), 7.95 (12.79), 8.51 (13.69), 9.30 (14.97),

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. ^o F(°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
65.2 (48.6)	12165 (54.1)	2.01 (3.23)	2213	15	0.695 (0.423)	10.20 (2.01)	181 (83)	70 (21)	29.9 (101.3)
70.9 (52.9)	12050 (53.6)	2.21 (3.55)	2203	14	0.678 (0.413)	10.46 (2.06)	187 (86)	72 (22)	29.9 (101.3)
83.0 (61.9)	11755 (52.3)	2.65 (4.26)	2184	12	0.639 (0.389)	11.08 (2.18)	187 (86)	72 (22)	29.9 (101.3)
87.3 (65.1)	11445 (50.9)	2.86 (4.60)	2191	12	0.631 (0.384)	11.25 (2.22)	185 (85)	72 (22)	29.9 (101.3)
95.2 (71.0)	11465 (51.0)	3.11 (5.01)	2173	11	0.613 (0.373)	11.57 (2.28)	185 (85)	72 (22)	29.9 (101.3)
97.9 (73.0)	11060 (49.2)	3.32 (5.34)	2140	10	0.595 (0.362)	11.93 (2.35)	187 (86)	72 (22)	29.9 (101.3)
102.7 (76.6)	10590 (47.1)	3.64 (5.86)	1968	9	0.552 (0.336)	12.84 (2.53)	183 (84)	73 (23)	29.9 (101.3)
104.6 (78.0)	10340 (46.0)	3.79 (6.10)	1810	9	0.533 (0.324)	13.30 (2.62)	185 (85)	73 (23)	29.9 (101.3)
103.4 (77.1)	9845 (43.8)	3.94 (6.34)	1799	9	0.531 (0.323)	13.35 (2.63)	187 (86)	73 (23)	29.9 (101.3)
106.2 (79.2)	9755 (43.4)	4.08 (6.57)	1799	8	0.528 (0.321)	13.43 (2.64)	185 (85)	75 (24)	29.9 (101.3)
105.4 (78.6)	8855 (39.4)	4.46 (7.18)	1800	8	0.524 (0.319)	13.54 (2.67)	187 (86)	75 (24)	29.9 (101.3)
106.1 (79.1)	8175 (36.4)	4.87 (7.83)	1800	7	0.525 (0.319)	13.51 (2.66)	187 (86)	75 (24)	29.9 (101.3)
105.0 (78.3)	7350 (32.7)	5.36 (8.62)	1799	6	0.529 (0.322)	13.40 (2.64)	189 (87)	75 (24)	29.9 (101.3)
107.8 (80.4)	6990 (31.1)	5.78 (9.31)	1796	6	0.518 (0.315)	13.68 (2.69)	189 (87)	79 (26)	29.9 (101.2)
104.9 (78.2)	6240 (27.8)	6.30 (10.14)	1801	6	0.534 (0.325)	13.29 (2.62)	187 (86)	75 (24)	29.9 (101.3)
105.0 (78.3)	6205 (27.6)	6.35 (10.22)	1797	6	0.531 (0.323)	13.35 (2.63)	189 (87)	79 (26)	29.9 (101.2)
104.7 (78.1)	5745 (25.6)	6.84 (11.00)	1800	5	0.531 (0.323)	13.35 (2.63)	187 (86)	79 (26)	29.9 (101.2)
102.9 (76.7)	5160 (22.9)	7.48 (12.03)	1796	5	0.535 (0.326)	13.24 (2.61)	181 (83)	79 (26)	29.9 (101.2)

Tested Without Ballast

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

Front Wheel Assist

Two 580/70R38; **,15(100)

Two 480/70R28; **,16(110)

20.5 in (520 mm)

7925 lb (3595 kg)

5465 lb (2480 kg)

13395 lb (6075 kg)

2WD

Two 580/70R38; **,15(100)

Two 11.00-16; 8; 40(275)

33.5 in (850 mm)

7805 lb (3540 kg)

5510 lb (2500 kg)

13315 lb (6040 kg)

10.98 (17.67), 11.77 (18.94), 12.86 (20.69), 13.78 (22.17), 16.26 (26.17), 18.26 (29.38), 19.03 (30.63), 21.36 (34.38), 25.22 (40.59), 24.86 (40.00) **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 1976 engine rpm or 1000 rpm at 2000 engine rpm **Unladen tractor mass** 2WD - 13140 lb (5960 kg), FWA - 13215 lb (5995 kg)

REPAIRS AND ADJUSTMENTS: No repairs or adjustments

REMARKS: All test results were determined from observed data obtained in accordance with official OECD test procedures. This tractor did not meet the manufacturer's claim of 26.4 GPM (100 lpm) remote hydraulic flow with twin flow system. The manufacturer's claim of 23.5 GPM (88.5 lpm), with open center system, was not tested for verification. The category IIN hitch configuration was not tested for verification. The performance figures on this summary were taken from a test conducted under the OECD Code II test procedure.

We, the undersigned, certify that this is a true summary of data from OECD Reports No. **2222 & 2223**, Nebraska Summary 466, March 15, 2006.

Leonard L. Bashford
Director

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

DRAWBAR PERFORMANCE
(Unballasted - 2WD)
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—21st(1LD) Gear									
98.0 (73.1)	4455 (19.8)	8.25 (13.28)	2200	5.8	0.574 (0.349)	12.35 (2.43)	187 (86)	75 (24)	30.2 (102.1)
75% of Pull at Maximum Power—21st(1LD) Gear									
74.8 (55.8)	3345 (14.9)	8.39 (13.50)	2207	4.7	0.631 (0.384)	11.23 (2.21)	190 (88)	75 (24)	30.2 (102.1)
50% of Pull at Maximum Power—21st(1LD) Gear									
50.7 (37.8)	2220 (9.9)	8.56 (13.77)	2229	4.1	0.767 (0.466)	9.25 (1.82)	181 (83)	75 (24)	30.2 (102.1)
75% of Pull at Reduced Engine Speed—22nd(2LB) Gear									
74.7 (55.7)	3320 (14.8)	8.43 (13.57)	2024	4.6	0.587 (0.357)	12.08 (2.38)	187 (86)	75 (24)	30.2 (102.1)
50% of Pull at Reduced Engine Speed—22nd(2LB) Gear									
50.7 (37.8)	2215 (9.9)	8.59 (13.82)	2055	4.6	0.690 (0.420)	10.27 (2.02)	183 (84)	75 (24)	30.2 (102.1)
MAXIMUM POWER IN SELECTED GEARS									
8th(3TA)Gear									
72.9 (54.3)	9610 (42.8)	2.84 (4.58)	2207	13.5	0.657 (0.400)	10.80 (2.13)	183 (84)	64 (18)	30.2 (102.4)
9th(2TD)Gear									
79.1 (59.0)	9600 (42.7)	3.09 (4.98)	2197	12.8	0.621 (0.378)	11.42 (2.25)	187 (86)	64 (18)	30.2 (102.4)
10th(3TB)Gear									
81.8 (61.0)	9305 (41.4)	3.30 (5.31)	2195	13.2	0.635 (0.386)	11.17 (2.20)	185 (85)	64 (18)	30.2 (102.4)
11th(3TC)Gear									
96.6 (72.0)	9245 (41.1)	3.92 (6.30)	2177	12.0	0.578 (0.352)	12.27 (2.42)	185 (85)	66 (19)	30.2 (102.4)
12th(4TA)Gear									
103.4 (77.1)	8925 (39.7)	4.34 (6.99)	2127	11.1	0.538 (0.327)	13.20 (2.60)	185 (85)	66 (19)	30.2 (102.4)
13th(3TD)Gear									
101.4 (75.6)	8565 (38.1)	4.44 (7.15)	2072	10.6	0.550 (0.335)	12.89 (2.54)	181 (83)	66 (19)	30.2 (102.4)
14th(1LA)Gear									
105.0 (78.3)	8610 (38.3)	4.57 (7.36)	2071	10.9	0.539 (0.328)	13.15 (2.59)	187 (86)	72 (22)	30.2 (102.1)
15th(4TB)Gear									
105.7 (78.8)	7900 (35.1)	5.02 (8.07)	2059	9.5	0.525 (0.319)	13.51 (2.66)	185 (85)	68 (20)	30.2 (102.3)
16th(1LB)Gear									
107.0 (79.8)	7765 (34.5)	5.17 (8.31)	1968	9.5	0.527 (0.321)	13.45 (2.65)	187 (86)	73 (23)	30.2 (102.1)
17th(4TC)Gear									
106.5 (79.4)	7215 (32.1)	5.53 (8.90)	1908	8.8	0.527 (0.321)	13.45 (2.65)	183 (84)	72 (22)	30.2 (102.2)
18th(1LC)Gear									
107.3 (80.0)	7150 (31.8)	5.63 (9.06)	1803	8.8	0.522 (0.318)	13.59 (2.68)	187 (86)	73 (23)	30.2 (102.1)
19th(4TD)Gear									
106.1 (79.1)	6485 (28.8)	6.13 (9.87)	1799	8.1	0.528 (0.321)	13.42 (2.64)	185 (85)	72 (22)	30.2 (102.2)
20th(2LA)Gear									
107.4 (80.1)	6495 (28.9)	6.20 (9.98)	1800	8.1	0.510 (0.310)	13.91 (2.74)	189 (87)	72 (22)	30.2 (102.1)
21st(1LD)Gear									
108.6 (81.0)	6125 (27.3)	6.65 (10.70)	1795	7.6	0.506 (0.308)	14.01 (2.76)	190 (88)	73 (23)	30.2 (102.1)
22nd(2LB)Gear									
107.5 (80.2)	5520 (24.5)	7.31 (11.76)	1793	7.1	0.521 (0.317)	13.60 (2.68)	190 (88)	72 (22)	30.2 (102.1)

TRACTOR SOUND LEVEL WITH CAB	Front Wheel Drive	
	2WD dB(A)	Engaged dB(A)
At no load in 12th (4TA) gear	71.0	71.0
Bystander	--	--

THREE POINT HITCH PERFORMANCE (OECD Static Test)

CATEGORY: II

Quick Attach: None

Maximum force exerted through whole range: 8923 lbs (39.7 kN)

i) Opening pressure of relief valve: NA

	<u>twin flow system</u>	<u>closed center system</u>
Sustained pressure of the open relief valve:	2975 psi (205 bar)	2830 psi (195 bar)

ii) Pump delivery rate at minimum pressure: 25.9 GPM (98.2 l/min) 29.6 GPM (112.0 l/min)

iii) Pump delivery rate at maximum

hydraulic power:	23.5 GPM (89.0 l/min)	27.2 GPM (103.0 l/min)
Delivery pressure:	2365 psi (163 bar)	2090 psi (144 bar)
Power:	32.4 hp (24.2 kW)	33.1 Hp (24.7 kW)

THREE POINT HITCH PERFORMANCE

Observed Maximum Pressure psi. (bar)	2800 (193)
Location:	lift cylinder
Hydraulic oil temperature: °F (°C)	149 (65)
Location:	hydraulic sump
Category:	II
Quick attach:	none

SAE Static Test—System pressure 2520 psi (174 Bar)

Hitch point distance to ground level in. (mm)	8.0 (203)	15.1 (384)	22.0 (559)	29.3 (744)	36.2 (919)
Lift force on frame lb	12539	11933	11629	11129	9939
" " " " " " (kN)	(55.8)	(53.1)	(51.7)	(49.5)	(44.2)

HITCH DIMENSIONS AS TESTED—NO LOAD

	SAE TEST		OECD TEST	
	inch	mm	inch	mm
A	27.6	702	28.2	716
B	11.6	295	11.6	295
C	13.9	354	13.9	354
D	13.0	330	13.0	330
E	7.9	200	7.9	200
F	10.2	260	10.2	260
G	32.3	820	32.3	820
H	0.3	8	0.3	8
I	15.3	389	15.3	389
J	22.1	560	22.1	560
K	21.5	545	21.5	545
L	40.9	1040	40.9	1040
M	22.2	565	22.2	565
N	37.0	940	37.0	940
O	8.0	203	8.0	203
P	41.1	1043	46.1	1170
Q	36.0	914	36.0	914
R	29.4	748	29.4	748

