

**SUMMARY OF OECD TEST 1800-NEBRASKA SUMMARY 279**  
**MASSEY FERGUSON 4255 DIESEL**  
**ALSO MASSEY FERGUSON 4253 DIESEL**  
**ALSO MASSEY FERGUSON 4355 DIESEL**  
**12 SPEED**

**POWER TAKE-OFF PERFORMANCE (540 RPM Shaft)**

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
<b>MAXIMUM POWER AND FUEL CONSUMPTION</b>					
<b>Rated Engine Speed—(PTO speed—625 rpm)</b>					
82.2 (61.3)	2201	5.43 (20.55)	0.482 (0.293)	15.14 (2.98)	
<b>Maximum Power (2 hours)</b>					
84.1 (62.7)	1999	5.16 (19.55)	0.449 (0.273)	16.27 (3.20)	
<b>Standard Power Take-off Speed (540 rpm)</b>					
83.3 (62.1)	1903	5.00 (18.92)	0.437 (0.266)	16.66 (3.28)	

**VARYING POWER AND FUEL CONSUMPTION**

82.2 (61.3)	2201	5.43 (20.55)	0.482 (0.293)	15.14 (2.98)	Air temperature
70.7 (52.7)	2225	4.97 (18.82)	0.513 (0.312)	14.22 (2.80)	75°F (24°C)
53.7 (40.0)	2258	4.06 (15.35)	0.550 (0.335)	13.23 (2.61)	Relative humidity
36.1 (26.9)	2278	3.25 (12.30)	0.655 (0.399)	11.10 (2.19)	37%
18.3 (13.6)	2291	2.44 (9.24)	0.972 (0.591)	7.49 (1.48)	Barometer
--	2315	1.65 (6.26)	--	--	29.8" Hg (100.8 kPa)

Maximum Torque -257.2 lb.-ft. (348.7 Nm) at 1305 rpm  
 Maximum Torque Rise -31.0%  
 Torque rise at 1800 engine rpm -21%

**POWER TAKE-OFF PERFORMANCE (1000 RPM Shaft)**

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
<b>MAXIMUM POWER AND FUEL CONSUMPTION</b>					
<b>Rated Engine Speed—(PTO speed—1101 rpm)</b>					
84.9 (63.3)	2202	5.40 (20.44)	0.463 (0.282)	15.72 (3.10)	
<b>Standard Power Take-off Speed (1000 rpm)</b>					
86.7 (64.7)	2000	5.14 (19.45)	0.432 (0.263)	16.87 (3.32)	
<b>Maximum Power (2 hours)</b>					
86.7 (64.7)	2000	5.14 (19.45)	0.432 (0.263)	16.87 (3.32)	

**VARYING POWER AND FUEL CONSUMPTION**

84.9 (63.3)	2202	5.40 (20.44)	0.463 (0.282)	15.72 (3.10)	Air temperature
73.4 (54.7)	2241	4.97 (18.80)	0.493 (0.300)	14.77 (2.91)	75°F (24°C)
56.1 (41.8)	2274	4.10 (15.53)	0.533 (0.325)	13.66 (2.69)	Relative humidity
37.4 (27.9)	2284	3.28 (12.40)	0.638 (0.388)	11.42 (2.25)	34%
18.8 (14.0)	2297	2.46 (9.32)	0.955 (0.581)	7.63 (1.50)	Barometer
--	2314	1.69 (6.38)	--	--	29.8" Hg (100.8 kPa)

Maximum Torque -269.4 lb.-ft. (365.2 Nm) at 1297 rpm  
 Maximum Torque Rise -33.1%  
 Torque rise at 1800 engine rpm -24%

**Location of tests:** Silsoe Research Institute, Wrest Park, Silsoe, Bedford, England MK45 4HS

**Dates of tests:** June to July, 1998

**Manufacturer:** AGCO Limited, P.O. Box 62, Banner Lane, Coventry, West Midlands, England CV4 9GF

**FUEL and OIL:** Fuel No. 2 Diesel **Specific gravity converted to 60°/60°F (15°/15°C)** 0.875 **Fuel weight** 7.28 lbs/gal (0.873 kg/l) **Oil** SAE 15W-30 **API service classification** CD **Transmission and hydraulic lubricant** SAE 15W-30 **Front axle lubricant** SAE 15W-30

**ENGINE: Make** Perkins Diesel **Type** four cylinder vertical with turbocharger **Serial No.** U809240C **Crankshaft** lengthwise **Rated engine speed** 2200 **Bore and stroke** 3.937" x 5.00" (100.0 mm x 127.0 mm) **Compression ratio** 17.3 to 1 **Displacement** 243 cu in (3990 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

**CHASSIS: Type** front wheel assist **Serial No.** ABED24ABXAE10999 **Treadwidth** rear 60.4" (1535 mm) to 83.9" (2130 mm) front 63.4" (1610 mm) to 75.4" (1915 mm) **Wheelbase** 92.5" (2350 mm) **Hydraulic control system** direct engine drive **Transmission** selective gear fixed ratio **Nominal travel speeds mph (km/h)** first 1.45 (2.33) second 1.89 (3.04) third 2.48 (3.99) fourth 3.25 (5.23) fifth 4.08 (6.57) sixth 5.33 (8.58) seventh 7.00 (11.26) eighth 9.16 (14.74) ninth 11.02 (17.73) tenth 14.39 (23.16) eleventh 18.89 (30.40) twelfth 24.74 (39.81) reverse 1.45 (2.33), 1.90 (3.05), 2.49 (4.00), 3.26 (5.24), 4.09 (6.58), 5.34 (8.59), 7.01 (11.28), 9.18 (14.77), 11.03 (17.75), 14.42 (23.20), 18.92 (30.45), 24.77 (39.87) **Clutch** single dry 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 1902 engine rpm or 1000 rpm at 2000 engine rpm **Unladen tractor mass** 8430 lb (3824 kg)

**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)	Temp. °F (°C) cool- ing med	Barom. inch Hg (kPa)		
<b>Maximum Power—5th (1M) Gear</b>									
65.6 (48.9)	6190 (27.5)	3.97 (6.39)	2200	5.3	0.572 (0.348)	12.22 (2.41)	185 (85)	66 (19)	30.0 (101.6)
<b>75% of Pull at Maximum Power—5th (1M) Gear</b>									
50.8 (37.9)	4645 (20.7)	4.10 (6.60)	2247	4.1	0.648 (0.394)	10.77 (2.12)	185 (85)	66 (19)	30.0 (101.6)
<b>50% of Pull at Maximum Power—5th (1M) Gear</b>									
34.7 (25.9)	3105 (13.8)	4.19 (6.75)	2271	2.9	0.765 (0.466)	9.12 (1.80)	186 (86)	68 (20)	30.0 (101.6)
<b>75% of Pull at Reduced Engine Speed—6th (2M) Gear</b>									
50.8 (37.9)	4655 (20.7)	4.09 (6.59)	1718	4.2	0.517 (0.315)	13.50 (2.66)	184 (84)	72 (22)	30.0 (101.6)
<b>50% of Pull at Reduced Engine Speed—6th (2M) Gear</b>									
34.9 (26.0)	3110 (13.8)	4.20 (6.76)	1741	3.0	0.590 (0.359)	11.83 (2.33)	184 (84)	69 (21)	30.0 (101.6)

**MAXIMUM POWER IN SELECTED GEARS**

<b>1st (1L) Gear</b>									
31.8 (23.7)	9170 (40.8)	1.30 (2.09)	2259	14.8	0.810 (0.493)	8.62 (1.70)	185 (85)	72 (22)	30.0 (101.6)
<b>2nd (2L) Gear</b>									
40.6 (30.3)	8815 (39.2)	1.73 (2.78)	2249	12.9	0.724 (0.441)	9.64 (1.90)	185 (85)	73 (23)	30.0 (101.6)
<b>3rd (3L) Gear</b>									
53.1 (39.6)	8710 (38.8)	2.29 (3.68)	2227	11.4	0.640 (0.389)	10.91 (2.15)	185 (85)	72 (22)	30.0 (101.6)
<b>4th (4L) Gear</b>									
64.9 (48.4)	8230 (36.6)	2.96 (4.76)	2134	8.6	0.563 (0.343)	12.41 (2.45)	185 (85)	72 (22)	30.0 (101.6)
<b>5th (1M) Gear</b>									
67.9 (50.6)	7340 (32.7)	3.47 (5.58)	1946	6.5	0.516 (0.314)	13.55 (2.67)	185 (85)	72 (22)	30.0 (101.6)
<b>6th (2M) Gear</b>									
68.3 (50.9)	5555 (24.7)	4.61 (7.42)	1947	4.9	0.517 (0.315)	13.50 (2.66)	185 (85)	68 (20)	30.0 (101.6)
<b>7th (3M) Gear</b>									
67.2 (50.1)	4100 (18.2)	6.14 (9.88)	1951	3.7	0.524 (0.319)	13.33 (2.63)	185 (85)	68 (20)	30.0 (101.6)
<b>8th (4M) Gear</b>									
63.7 (47.5)	2965 (13.2)	8.05 (12.96)	1938	2.8	0.549 (0.334)	12.73 (2.51)	185 (85)	70 (21)	30.0 (101.6)
<b>9th (1H) Gear</b>									
63.9 (47.7)	2455 (10.9)	9.76 (15.71)	1947	2.5	0.545 (0.332)	12.82 (2.53)	185 (85)	70 (21)	30.0 (101.6)

**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 18.4R38;\*\*,12(83)  
Two 420/70R28;\*\*,15(103)

22.4 in (570 mm)  
5100 lb (2314 kg)  
3495 lb (1585 kg)  
8595 lb (3899 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 3 point lift capacity claim of 6614 lbs (3000 kg) at lower link ends. The performance results on this summary were taken from a test conducted under the OECD Code 2 test procedure.

**Report reissued:** Supplemental sales permit for Massey Ferguson 4253 Diesel, July, 2000.

**Report reissued:** Supplemental sales permit for Massey Ferguson 4355 Diesel, March, 2003.

We, the undersigned, certify that this is a true summary of data from OECD Report No. **1800**, Nebraska Summary 279, March 4, 2003.

Leonard L. Bashford  
Director

M.F. Kocher  
V.I. Adamchuk  
W.P. Campbell  
Board of Tractor Test Engineers

**DRAWBAR PERFORMANCE**  
**(Unballasted - Front Drive Disengaged)**  
**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)	Temp.°F (°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)	
<b>Maximum Power—7th (3M) Gear</b>									
65.4 (48.8)	3625 (16.1)	6.78 (10.91)	2198	3.4	0.569 (0.346)	12.28 (2.42)	187 (86)	66 (19)	29.7 (100.5)
<b>75% of Pull at Maximum Power—7th (3M) Gear</b>									
50.3 (37.5)	2705 (12.0)	6.97 (11.22)	2246	2.8	0.637 (0.388)	10.96 (2.16)	187 (86)	79 (26)	29.7 (100.5)
<b>50% of Pull at Maximum Power—7th (3M) Gear</b>									
34.9 (26.0)	1840 (8.2)	7.10 (11.42)	2270	2.0	0.723 (0.440)	9.65 (1.90)	187 (86)	79 (26)	29.7 (100.5)
<b>75% of Pull at Reduced Engine Speed—8th (4M) Gear</b>									
51.8 (38.6)	2785 (12.4)	6.97 (11.22)	1716	2.7	0.504 (0.307)	13.86 (2.73)	183 (84)	79 (26)	29.7 (100.5)
<b>50% of Pull at Reduced Engine Speed—8th (4M) Gear</b>									
35.6 (26.5)	1880 (8.4)	7.09 (11.41)	1732	2.1	0.580 (0.353)	12.03 (2.37)	183 (84)	81 (27)	29.7 (100.5)

**MAXIMUM POWER IN SELECTED GEARS**

2nd (2L) Gear									
28.8 (21.5)	6475 (28.8)	1.67 (2.69)	2263	15.0	0.824 (0.501)	8.48 (1.67)	187 (86)	75 (24)	29.7 (100.5)
3rd (3L) Gear									
38.1 (28.4)	6250 (27.8)	2.29 (3.69)	2251	10.1	0.727 (0.442)	9.61 (1.89)	185 (85)	68 (20)	29.7 (100.5)
4th (4L) Gear									
50.6 (37.7)	6290 (28.0)	3.02 (4.86)	2228	8.7	0.644 (0.392)	10.83 (2.13)	187 (86)	66 (19)	29.7 (100.5)
5th (1M) Gear									
63.0 (47.0)	6400 (28.5)	3.69 (5.94)	2202	9.9	0.593 (0.361)	11.78 (2.32)	187 (86)	66 (19)	29.7 (100.5)
6th (2M) Gear									
68.0 (50.7)	5735 (25.5)	4.45 (7.16)	1942	5.8	0.515 (0.313)	13.55 (2.67)	185 (85)	64 (18)	29.7 (100.5)
7th (3M) Gear									
68.3 (50.9)	4165 (18.5)	6.15 (9.90)	2003	3.7	0.519 (0.316)	13.45 (2.65)	185 (85)	66 (19)	29.7 (100.5)
8th (4M) Gear									
67.3 (50.2)	3090 (13.7)	8.17 (13.14)	2016	3.1	0.523 (0.318)	12.35 (2.63)	185 (85)	77 (25)	29.7 (100.5)

TRACTOR SOUND LEVEL WITH CAB	Front Wheel Drive	
	Disengaged dB(A)	Engaged dB(A)
Maximum sound level in 5th (1M) Gear	81.0	81.0
Bystander in 12th (4H) Gear	85.0	--

### THREE POINT HITCH PERFORMANCE (OECD Static Test)

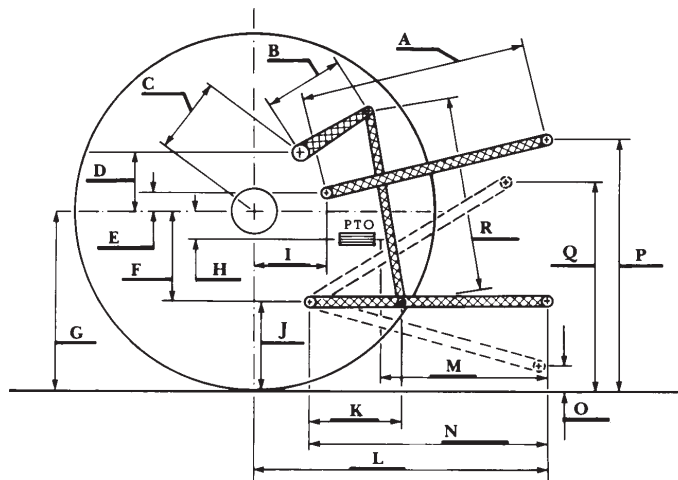
CATEGORY: II

Quick Attach: None

Maximum Force Exerted Through Whole Range: 5710 lbs (25.4 kN) (at the frame)  
6360 lbs (28.3 kN) (at the hitch points)

- i) Opening pressure of relief valve: NA
- Sustained pressure of the open relief valve: 3105 psi (214 bar)
- ii) Pump delivery rate at minimum pressure: 10.0 GPM (38.0 l/min)
- iii) Pump delivery rate at maximum
  - hydraulic power: 9.5 GPM (36.0 l/min)
  - Delivery pressure: 2685 psi (185 bar)
  - Power: 14.9 HP (11.1 kW)

HITCH DIMENSIONS AS TESTED—NO LOAD



	inch	mm
A	32.1	815
B	12.2	310
C	12.0	304
D	9.2	233
E	8.1	205
F	8.4	212
G	32.3	820
H	5.4	137
I	7.3	186
J	23.9	608
K	24.8	630
L	40.1	1018
M	27.0	685
N	41.3	1050
O	7.8	198
P	48.0	1218
Q	35.3	896
R	30.5	775