

SUMMARY OF OECD TESTS 2288 & 2289—NEBRASKA SUMMARY 512 MASSEY FERGUSON 5455 DIESEL 16 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—1100 rpm)					
80.2 (59.8)	2200	5.22 (19.75)	0.461 (0.281)	15.37 (3.03)	
Standard Power Take-off Speed(1000 rpm)					
82.5 (61.5)	2000	4.94 (18.70)	0.425 (0.259)	16.69 (3.29)	
Maximum Power (2 hours)					
82.6 (61.6)	1955	4.86 (18.38)	0.419 (0.254)	17.00 (3.35)	

VARYING POWER AND FUEL CONSUMPTION

80.2 (59.8)	2200	5.22 (19.75)	0.461 (0.281)	15.37 (3.03)	Air temperature
70.4 (52.5)	2262	4.87 (18.42)	0.490 (0.298)	14.47 (2.85)	70°F (22°C)
52.6 (39.2)	2277	4.25 (16.08)	0.573 (0.349)	12.38 (2.44)	Relative humidity
34.9 (26.0)	2293	3.28 (12.40)	0.666 (0.405)	10.64 (2.10)	56%
17.4 (13.0)	2311	2.50 (9.44)	1.017 (0.619)	6.97 (1.37)	Barometer
--	2323	1.59 (6.03)	--	--	29.3" Hg (99.7 kPa)

Maximum Torque - 271.3 lb.-ft. (367.8 Nm) at 1300 rpm
Maximum Torque Rise - 41.8%
Torque rise at 1750 engine rpm - 27%

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)
Maximum Power—8th(11C) Gear							
66.8 (49.8)	4050 (18.0)	6.18 (9.95)	2201	5.3	0.575 (0.350)	12.33 (2.43)	192 (89)
75% of Pull at Maximum Power—8th(11C) Gear							
51.8 (38.6)	3035 (13.5)	6.40 (10.30)	2249	4.1	0.669 (0.407)	10.61 (2.09)	190 (88)
50% of Pull at Maximum Power—8th(11C) Gear							
35.3 (26.3)	2030 (9.0)	6.52 (10.50)	2269	3.1	0.777 (0.473)	9.13 (1.80)	190 (88)
75% of Pull at Reduced Engine Speed—10th(11D) Gear							
52.3 (39.0)	3060 (13.6)	6.41 (10.32)	1799	4.4	0.527 (0.321)	13.45 (2.65)	187 (86)
50% of Pull at Reduced Engine Speed—10th(11D) Gear							
35.3 (26.3)	2030 (9.0)	6.52 (10.50)	1804	3.0	0.639 (0.389)	11.10 (2.19)	185 (85)

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

Dates of tests: May, 2004

Sound tests: January 19, 2006

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) 0.852 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 four cylinder vertical with turbocharger Serial No. U090535J Crankshaft lengthwise Rated engine speed 2200 Bore and stroke 4.134" x 5.00" (105.0 mm x 127.0 mm) Compression ratio 17.5 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 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

CHASSIS: Type 2WD and FWA Serial No. N005101 Tread width rear 59.8" (1518 mm) to 67.0" (1703 mm) front 2WD - 53.0" (1345 mm) to 87.3" (2217 mm), FWA - 53.4" (1357 mm) to 64.8" (1646 mm) Wheelbase 2WD - 97.0" (2463 mm) FWA - 97.0" (2463 mm) Hydraulic control system direct engine drive Transmission selective gear fixed ratio with partial (2) range operator controlled powershift Nominal travel speeds mph (km/h) first 1.69 (2.72) second 2.13 (3.43) third 2.55 (4.10) fourth 3.22 (5.19) fifth 3.77 (6.07) sixth 4.77 (7.68) seventh 5.11 (8.22) eighth 6.33 (10.18) ninth 6.46 (10.39) tenth 7.99 (12.86) eleventh 9.56 (15.39) twelfth 12.07 (19.43) thirteenth 14.14 (22.76) fourteenth 17.88 (28.77) fifteenth 19.15 (30.82) sixteenth 24.18 (38.92) reverse 1.64 (2.64), 2.08 (3.34), 2.48 (3.99), 3.13 (5.04), 3.67 (5.90), 4.64 (7.46), 4.96 (7.99), 6.15 (9.89), 6.27 (10.09), 7.77 (12.50), 9.30 (14.96), 11.73 (18.88), 13.75 (22.12), 17.37 (27.95), 18.61 (29.95), 23.49 (37.81) 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 1980 engine rpm or 1000 rpm at 2000 engine rpm Unladen tractor mass 2WD - 8675 lb (3935 kg), FWA - 9305 lb (4220 kg)

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 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(2TD) Gear									
63.8 (47.6)	8725 (38.8)	2.74 (4.42)	2135	14.6	0.599 (0.364)	11.84 (2.33)	189 (87)	48 (9)	29.9 (101.4)
5th(3TC) Gear									
67.5 (50.3)	7735 (34.4)	3.27 (5.27)	2039	9.0	0.514 (0.313)	13.80 (2.72)	190 (88)	48 (9)	29.9 (101.4)
6th(3TD) Gear									
68.1 (50.8)	6315 (28.1)	4.04 (6.50)	1953	7.3	0.539 (0.328)	13.15 (2.59)	189 (87)	48 (9)	29.9 (101.4)
7th(4TC) Gear									
67.9 (50.6)	5850 (26.0)	4.35 (7.00)	1949	6.8	0.531 (0.323)	13.35 (2.63)	190 (88)	48 (9)	29.9 (101.4)
8th(1LC) Gear									
68.3 (50.9)	4655 (20.7)	5.50 (8.85)	1965	5.7	0.499 (0.304)	14.21 (2.80)	192 (89)	50 (10)	29.9 (101.4)
9th(4TD) Gear									
67.7 (50.5)	4520 (20.1)	5.62 (9.05)	1966	5.2	0.518 (0.315)	13.71 (2.70)	190 (88)	50 (10)	29.9 (101.4)
10th(1LD) Gear									
66.6 (49.7)	3570 (15.9)	7.00 (11.26)	1961	4.3	0.523 (0.318)	13.55 (2.67)	192 (89)	50 (10)	29.9 (101.4)
11th(2LC) Gear									
65.3 (48.7)	2925 (13.0)	8.37 (13.47)	1963	5.0	0.517 (0.314)	13.72 (2.70)	194 (90)	50 (10)	29.9 (101.4)

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 72 dB(A) cab sound level. 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. **2288 & 2289**, Nebraska Summary 512, March 17, 2006.

Leonard L. Bashford
 Director

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 Board of Tractor Test Engineers

TRACTOR SOUND LEVEL WITH CAB	Front Wheel Drive	
	2WD dB(A)	Engaged dB(A)
At no load in 7th(4TC) gear	75.2	75.2
Bystander in 16th(4LD) gear	88.3	--

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 18.4R38; **,15(100)

Two 14.9R28; **,16(110)

21.7 in (550 mm)

5795 lb (2630 kg)

3650 lb (1655 kg)

9445 lb (4285 kg)

2WD

Two 18.4R38; **,15(100)

Two 10.00-16; 8; 30 (210)

33.5 in (850 mm)

5765 lb (2615 kg)

3120 lb (1415 kg)

8885 lb (4030 kg)

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—8th(1LC) Gear									
65.6 (48.9)	4095 (18.2)	6.01 (9.67)	2200	8.0	0.548 (0.334)	12.93 (2.55)	194 (90)	68 (20)	30.1 (101.8)
75% of Pull at Maximum Power—8th(1LC) Gear									
51.5 (38.4)	3075 (13.7)	6.28 (10.10)	2253	6.1	0.632 (0.385)	11.22 (2.21)	194 (90)	66 (19)	30.1 (101.8)
50% of Pull at Maximum Power—8th(1LC) Gear									
35.1 (26.2)	2065 (9.2)	6.38 (10.26)	2273	5.5	0.794 (0.483)	8.93 (1.76)	192 (89)	66 (19)	30.1 (101.8)
75% of Pull at Reduced Engine Speed—10th(1LD) Gear									
51.4 (38.3)	3060 (13.6)	6.29 (10.13)	1812	6.8	0.522 (0.318)	13.59 (2.68)	189 (87)	68 (20)	30.1 (101.8)
50% of Pull at Reduced Engine Speed—10th(1LD) Gear									
35.1 (26.2)	2065 (9.2)	6.38 (10.26)	1802	5.1	0.602 (0.366)	11.78 (2.32)	187 (86)	66 (19)	30.1 (101.8)
MAXIMUM POWER IN SELECTED GEARS									
5th(3TC) Gear									
61.4 (45.8)	6835 (30.4)	3.37 (5.42)	2194	13.0	0.598 (0.364)	11.87 (2.34)	189 (87)	64 (18)	30.1 (101.8)
6th(3TD) Gear									
65.3 (48.7)	5955 (26.5)	4.11 (6.61)	2054	10.3	0.574 (0.349)	12.35 (2.43)	190 (88)	64 (18)	30.1 (101.8)
7th(4TC) Gear									
65.3 (48.7)	5780 (25.7)	4.24 (6.82)	1968	10.0	0.538 (0.327)	13.20 (2.60)	194 (90)	66 (19)	30.1 (101.8)
8th(1LC) Gear									
67.1 (50.0)	4745 (21.1)	5.30 (8.53)	1959	8.8	0.508 (0.309)	13.96 (2.75)	194 (90)	66 (19)	30.1 (101.8)
9th(4TD) Gear									
66.0 (49.2)	4535 (20.2)	5.46 (8.78)	1964	8.0	0.548 (0.333)	12.94 (2.55)	194 (90)	66 (19)	30.1 (101.8)
10th(1LD) Gear									
66.5 (49.6)	3690 (16.4)	6.76 (10.88)	1951	7.0	0.510 (0.310)	13.91 (2.74)	192 (89)	68 (20)	30.1 (101.8)
11th(2LC) Gear									
65.2 (48.6)	2990 (13.3)	8.18 (13.16)	1962	7.0	0.514 (0.313)	13.81 (2.72)	185 (85)	68 (20)	30.1 (101.8)

THREE POINT HITCH PERFORMANCE (OECD Static Test)

CATEGORY: II

Quick Attach: None

Maximum force exerted through whole range: 7285 lbs (32.4 kN)

i) Opening pressure of relief valve: NA

one outlet set two outlet sets combined

Sustained pressure of the open relief valve: 2800 psi (193 bar) 2800 psi (193 bar)

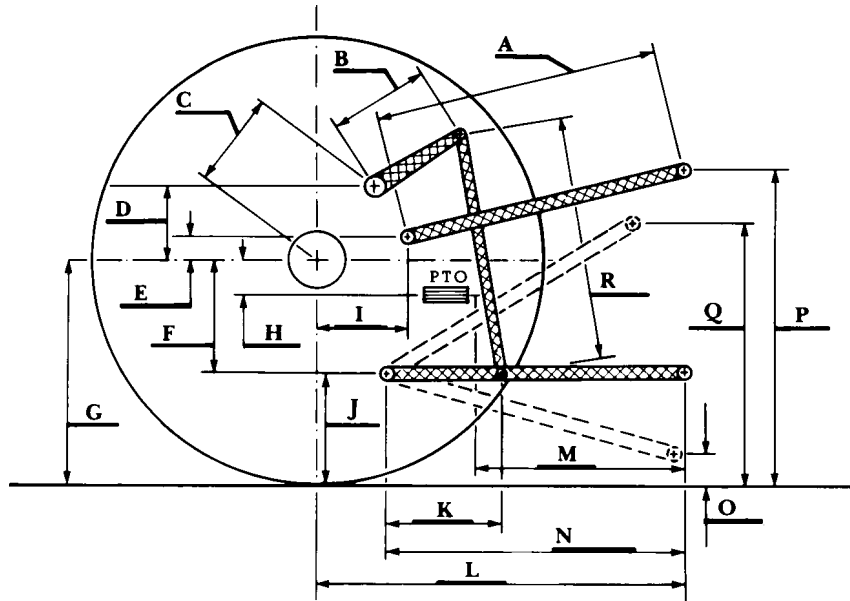
ii) Pump delivery rate at minimum pressure: 15.6 GPM (59.2 l/min) 15.6 GPM (59.1 l/min)

iii) Pump delivery rate at maximum

hydraulic power: 14.8 GPM (56.1 l/min) 15.2 GPM (57.6 l/min)

Delivery pressure: 2295 psi (158 bar) 2305 psi (159 bar)

Power: 19.8 hp (14.8 kW) 20.5 Hp (15.3 kW)



HITCH DIMENSIONS AS TESTED—NO LOAD

	inch	mm
A	25.6	650
B	11.6	295
C	13.9	354
D	13.0	330
E	7.9	200
F	10.2	260
G	30.5	775
H	1.9	48
I	16.3	413
J	20.3	515
K	25.2	640
L	41.2	1046
M	22.5	571
N	37.2	946
O	8.1	205
P	44.3	1125
Q	31.5	801
R	30.1	765