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2012

Nebraska Summary: S902 Massey Ferguson 7624

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SUMMARY OF OECD TEST 2757-NEBRASKA SUMMARY 902

MASSEY FERGUSON 7624 DYNA 6 DIESEL

24 SPEED

POWER TAKE-OFF PERFORMANCE

Power HP (kW)	Crank shaft speed rpm	Diesel Consumption		D.E.F. Consumption		Mean Atmospheric Conditions
		Gal/hr (l/h)	lb/hp.hr (kg/kW.h)	Hp.hr/gal (kW.h/l)	Gal/hr (l/h)	
MAXIMUM POWER AND FUEL CONSUMPTION						
Rated Engine Speed—(PTO speed—1086 rpm)						
186.0 (138.7)	2096	10.84 (41.04)	0.406 (0.247)	17.16 (3.38)	0.46 (1.76)	
Maximum Power (1 hour)						
211.7 (157.9)	1949	11.44 (43.29)	0.376 (0.229)	18.51 (3.65)	0.64 (2.41)	
Standard Power Take-off Speed (1000 rpm)						
210.4 (156.9)	1930	11.30 (42.77)	0.374 (0.228)	18.62 (3.67)	0.60 (2.28)	

VARYING POWER AND FUEL CONSUMPTION

186.0 (138.7)	2096	10.84 (41.04)	0.406 (0.247)	17.16 (3.38)	0.46 (1.76)	Air temperature
160.3 (119.5)	2122	9.39 (35.53)	0.409 (0.249)	17.07 (3.36)	0.42 (1.60)	68°F (20°C)
120.6 (89.9)	2132	7.44 (28.17)	0.430 (0.262)	16.20 (3.19)	0.32 (1.22)	Relative humidity
80.5 (60.0)	2137	5.68 (21.51)	0.491 (0.299)	14.19 (2.79)	0.23 (0.87)	46%
40.6 (30.3)	2148	3.84 (14.52)	0.658 (0.400)	10.59 (2.09)	0.15 (0.55)	Barometer
--	2154	2.23 (8.44)	--	--	--	30.0" Hg (101.6 kPa)

Maximum torque - 704.4 lb.-ft. (955.1 Nm) at 1500 rpm
 Maximum torque rise - 51.1%
 Torque rise at 1700 engine rpm - 36%
 Power increase at 1949 engine rpm - 13.8%

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)	Fuel Consumption Hp.hr/gal (kW.h/l)	Temp. °F (°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
Maximum Power—11th(3A) Gear									
161.7 (120.6)	12005 (53.4)	5.05 (8.13)	2103	5.3	0.421 (0.256)	16.55 (3.26)	183 (84)	41 (5)	30.0 (101.7)
75% of Pull at Maximum Power—11th(3A) Gear									
120.8 (90.1)	8765 (39.0)	5.17 (8.32)	2127	3.4	0.461 (0.280)	15.09 (2.97)	180 (82)	41 (5)	30.0 (101.7)
50% of Pull at Maximum Power—11th(3A) Gear									
84.8 (63.2)	6050 (26.9)	5.26 (8.46)	2135	2.4	0.510 (0.310)	13.65 (2.69)	180 (82)	41 (5)	30.0 (101.7)
75% of Pull at Reduced Engine Speed—13th(3B) Gear									
121.8 (90.8)	8835 (39.3)	5.17 (8.32)	1778	3.5	0.410 (0.249)	16.97 (3.34)	183 (84)	41 (5)	30.0 (101.7)
50% of Pull at Reduced Engine Speed—13th(3B) Gear									
84.8 (63.2)	6070 (27.0)	5.34 (8.43)	1786	2.6	0.417 (0.253)	16.70 (3.29)	181 (83)	41 (5)	30.0 (101.7)

Location of tests: IRSTEA, Centre d'Antony, 1 rue Pierre-Gilles de Gennes CS 10030 Antony, 92163, Cedex, France

Dates of tests: October - November, 2012

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)** 0.837 **Fuel weight** 6.97 lbs/gal (0.835 kg/l) **Diesel Exhaust Fluid (DEF)** 32% aqueous urea solution **DEF weight** 9.10 lbs/gal (1.091 kg/l) **Oil SAE** 15W40 **API service classification** CJ-4 **Transmission and hydraulic lubricant** BP Terrac Tractan 9 15W/40 **Front axle lubricant** BP Terrac Tractan 9 15W/40

ENGINE: Make Sisu AGCO Power Diesel **Type** six cylinder vertical with turbocharger and air to air intercooler and SCR (selective catalyst reduction) exhaust treatment **Serial No.** X00365 **Crankshaft** lengthwise **Rated engine speed** 2100 **Bore and stroke** 4.252" x 5.276" (108.0 mm x 134.0 mm) **Compression ratio** 17.8 to 1 **Displacement** 449 cu in (7365 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** three paper cartridges **Muffler** vertical **Cooling medium** **temperature control** thermostat and variable speed fan

CHASSIS: **Type** front wheel assist **Serial No.** B 193 047 **Tread width** rear 52.8" (1340 mm) to 87.8" (2230 mm) front 52.8" (1340 mm) to 87.8" (2230 mm) **Wheelbase** 117.8" (2993 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 1.72 (2.76) 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 5.22 (8.40) twelfth 5.44 (8.76) thirteenth 6.28 (10.10) fourteenth 6.55 (10.54) fifteenth 7.37 (11.86) sixteenth 8.87 (14.27) seventeenth 10.43 (16.78) eighteenth 12.54 (20.18) nineteenth 14.49 (23.32) twentieth 17.42 (28.04) twenty-first 20.45 (32.91) twenty-second 24.61 (39.60) twenty-third 24.86 (40.00) twenty-fourth 24.86 (40.00) electronically limited reverse 1.01 (1.62), 1.21 (1.95), 1.42 (2.29), 1.72 (2.76), 2.01 (3.24), 2.42 (3.90), 2.73 (4.39), 3.27 (5.27), 3.85 (6.19), 4.63 (7.45), 5.22 (8.40), 5.44 (8.76), 6.28 (10.10), 6.55 (10.54), 7.37 (11.86), 8.87 (14.27) 10.43 (16.78), 12.54 (20.18), 14.49 (23.32), 17.42 (28.04), 20.45 (32.91), 24.61 (39.60), 24.86 (40.00), 24.86 (40.00) electronically limited

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)
6th(1F) Gear									
97.2 (72.5)	17290 (76.9)	2.11 (3.39)	2124	14.0	0.470 (0.286)	14.80 (2.92)	180 (82)	41 (5)	30.0 (101.7)
7th(2A) Gear									
111.6 (83.2)	17020 (75.7)	2.46 (3.96)	2116	10.3	0.444 (0.270)	15.68 (3.09)	181 (83)	41 (5)	30.0 (101.7)
8th(2B) Gear									
132.4 (98.7)	16570 (73.7)	3.00 (4.82)	2114	9.4	0.448 (0.272)	15.54 (3.06)	181 (83)	41 (5)	30.0 (101.7)
9th(2C) Gear									
156.1 (116.4)	16435 (73.1)	3.56 (5.73)	2078	8.4	0.424 (0.258)	16.40 (3.23)	183 (84)	41 (5)	30.0 (101.7)
10th(2D) Gear									
166.6 (124.2)	15240 (67.8)	4.10 (6.59)	1967	7.1	0.410 (0.249)	16.97 (3.34)	185 (85)	41 (5)	30.0 (101.7)
11th(3A) Gear									
179.7 (134.0)	14725 (65.5)	4.58 (7.36)	1950	6.6	0.414 (0.252)	16.80 (3.31)	189 (87)	41 (5)	30.0 (101.7)
12th(2E) Gear									
181.6 (135.4)	14140 (62.9)	4.82 (7.75)	1954	6.0	0.409 (0.248)	17.03 (3.35)	189 (87)	41 (5)	30.0 (101.7)
13th(3B) Gear									
182.5 (136.1)	12340 (54.9)	5.54 (8.92)	1950	5.6	0.398 (0.242)	17.49 (3.45)	190 (88)	41 (5)	30.0 (101.7)
14th(2F) Gear									
184.9 (137.9)	11960 (53.2)	5.80 (9.33)	1945	5.4	0.394 (0.240)	17.66 (3.48)	189 (87)	41 (5)	30.0 (101.7)
15th(3C) Gear									
183.3 (136.7)	10455 (46.5)	6.58 (10.58)	1953	4.3	0.401 (0.244)	17.33 (3.42)	189 (87)	41 (5)	30.0 (101.7)
16th(3D) Gear									
184.7 (137.7)	8610 (38.3)	8.04 (12.94)	1944	3.2	0.396 (0.241)	17.56 (3.46)	190 (88)	41 (5)	30.0 (101.7)
17th(3E) Gear									
178.0 (132.8)	7035 (31.3)	9.49 (15.27)	1955	2.9	0.415 (0.253)	16.75 (3.30)	189 (87)	41 (5)	30.0 (101.7)

TRACTOR SOUND LEVEL WITH CAB	Front wheel drive	
	Engaged dB(A)	Disengaged dB(A)
At no load in 10th (2D) gear	70.0	70.0
Bystander		--

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 650/65R42;**,14(100)

Two 540/65R30;**,16(110)

22.4 in (570 mm)

10515 lb (4770 kg)

8795 lb (3990 kg)

19310 lb (8760 kg)

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 1890 engine rpm or 1000 rpm at 1930 engine rpm
Unladen tractor mass 19145 lb (8685 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 three point hitch lift claim of 14000 lbs (6350 kg) nor remote hydraulic flow claim of 29 gpm (110 lpm) nor cab noise level claim of 69 dB(A). The manufacturer's remote hydraulic flow claim of 39 GPM (147 lpm) for optional pump was not verified. 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. **2757**, Nebraska Summary 902, January 23, 2014.

Roger M. Hoy
 Director

M.F. Kocher

J.D. Luck

P.J. Jasa

Board of Tractor Test Engineers

HYDRAULIC PERFORMANCE

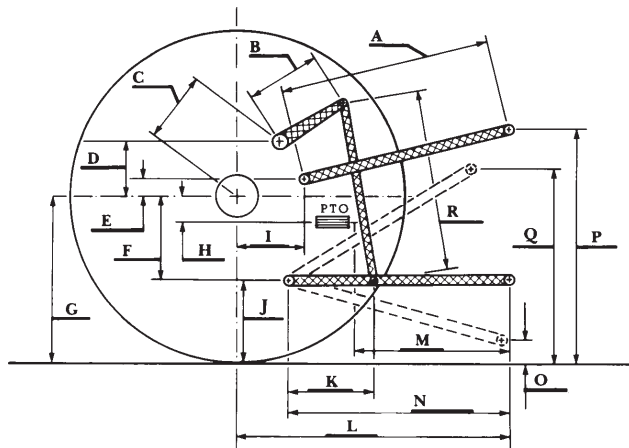
CATEGORY: III

Quick Attach: None

OECD Static test

- Maximum force exerted through whole range: 13670 lbs (60.8 kN)
- i) Sustained pressure of the open relief valve: 2770 psi (191 bar)
two outlet sets combined
- ii) Pump delivery rate at minimum pressure: 28.7 GPM (108.7 l/min)
- iii) Pump delivery rate at maximum
 hydraulic power: 25.9 GPM (98.2 l/min)
 Delivery pressure: 2235 psi (154 bar)
 Power: 33.8 HP (25.2 kW)
single outlet set
- ii) Pump delivery rate at minimum pressure: 28.7 GPM (108.6 l/min)
- iii) Pump delivery rate at maximum
 hydraulic power: 26.0 GPM (98.3 l/min)
 Delivery pressure: 1915 psi (132 bar)
 Power: 29.0 HP (21.7 kW)

HITCH DIMENSIONS AS TESTED—NO LOAD



	inch	mm
A	30.3	770
B	15.7	400
C	20.7	525
D	19.1	485
E	8.3	210
F	12.2	310
G	36.4	925
H	2.0	50
I	17.7	450
J	24.2	615
K	21.8	554
L	47.2	1200
M	22.0	560
N	37.1	942
O	11.1	283
P	51.2	1300
Q	41.6	1057
R	36.3	923