SUMMARY OF OECD TEST 2194–NEBRASKA SUMMARY 471
MASSEY FERGUSON 7475 DYNAVT DIESEL
DYNA STEP TRANSMISSION

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—1081 rpm)					
106.7 *(79.6)*	2199	7.41 *(28.06)*	0.479 *(0.291)*	14.41 *(2.84)*	
Standard Power Take-off Speed(1000 rpm)					
114.5 *(85.4)*	2034	7.57 *(28.64)*	0.456 *(0.277)*	15.13 *(2.98)*	
Maximum Power (2 hours)					
118.1 *(88.1)*	1800	7.22 *(27.32)*	0.422 *(0.256)*	16.37 *(3.22)*	
VARYING POWER AND FUEL CONSUMPTION					
106.7 *(79.6)*	2199	7.41 *(28.06)*	0.479 *(0.291)*	14.41 *(2.84)*	Air temperature
91.3 *(68.1)*	2215	6.65 *(25.19)*	0.503 *(0.306)*	13.72 *(2.70)*	64°F *(18°C)*
69.3 *(51.7)*	2237	5.60 *(21.19)*	0.557 *(0.339)*	12.39 *(2.44)*	Relative humidity
46.5 *(34.7)*	2258	4.48 *(16.95)*	0.664 *(0.404)*	10.39 *(2.05)*	47%
23.5 *(17.5)*	2280	3.15 *(11.92)*	0.925 *(0.563)*	7.46 *(1.47)*	Barometer
-- --	2297	2.12 *(8.03)*	-- --	-- --	29.5" Hg *(100.0 kPa)*

Maximum Torque - 381 lb.-ft. *(517 Nm)* at 1350 rpm
Maximum Torque Rise - 49.4%
Torque rise at 1800 engine rpm - 35%

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—Turtle 12									
88.2 *(65.8)*	6880 *(30.60)*	4.81 *(7.74)*	2201	2.8	0.584 *(0.355)*	11.83 *(2.33)*	142 *(61)*	66 *(19)*	29.9 *(101.2)*
75% of Pull at Maximum Power—Turtle 12									
67.1 *(50.0)*	5140 *(22.87)*	4.89 *(7.87)*	2224	1.6	0.643 *(0.391)*	10.73 *(2.11)*	142 *(61)*	66 *(19)*	29.9 *(101.2)*
50% of Pull at Maximum Power—Turtle 12									
45.5 *(33.9)*	3415 *(15.20)*	4.99 *(8.03)*	2246	0.7	0.776 *(0.472)*	8.89 *(1.75)*	138 *(59)*	66 *(19)*	29.9 *(101.2)*
75% of Pull at Reduced Engine Speed—Turtle 13									
67.2 *(50.1)*	5135 *(22.84)*	4.91 *(7.90)*	2003	1.6	0.584 *(0.355)*	11.83 *(2.33)*	136 *(58)*	66 *(19)*	29.9 *(101.2)*
50% of Pull at Reduced Engine Speed—Turtle 13									
45.6 *(34.0)*	3425 *(15.23)*	4.99 *(8.03)*	2011	0.7	0.663 *(0.404)*	10.41 *(2.05)*	138 *(59)*	66 *(19)*	29.9 *(101.2)*

Location of tests: DLG testing Station for Agricultural Machinery, Max-Eyth-Weg 1 D-64823 Gros - Umstadt, Germany
Dates of tests: February - March, 2004
Sound tests: January 19, 2006
Manufacturer: AGCO S.A., BP 60307, Avenue Blaise Pascal, 60026 Beauvais, France

FUEL and OIL: Fuel No. 2 Diesel **Specific gravity converted to 60°/60°F *(15°/15°C)*** 0.829 **Fuel weight** 6.90 lbs/gal *(0.8269 kg/l)* **Oil SAE** 10W40 **API service classification** CH4 **Transmission and hydraulic lubricant** SAE10W/40 **Front axle lubricant** Gear oil SAE 85W/90

ENGINE: Make Perkins Diesel **Type** six cylinder vertical with turbocharger and air to air intercooler **Serial No.** U092650K **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 and aspirator **Oil filter** one full flow cartridge **Oil cooler** engine coolant heat exchanger for crankcase oil, radiator for hydraulic and final drive oil, radiator for transmission oil **Fuel filter** one paper element **Muffler** vertical **Cooling medium temperature control** thermostat and variable speed fan

CHASSIS: Type front wheel assist **Serial No.** M309065 **Tread width** rear 61.6" *(1566 mm)* to 74.6" *(1896 mm)* front 72.4" *(1840 mm)* to 78.1" *(1984 mm)* **Wheelbase** 109.4" *(2780 mm)* **Hydraulic control system** direct engine drive **Transmission** AGCO Stepshift. A combination of mechanical and hydrostatic sections are electronically controlled to give the travel speeds shown. The transmission has two mechanical ranges. **Nominal travel speeds mph *(km/h)*** Forward: Low range 1st - 1.1 *(1.8)*, 2nd - 1.4 *(2.2)*, 3rd - 1.6 *(2.6)*, 4th - 1.9 *(3.0)*, 5th - 2.1 *(3.4)*, 6th - 2.4 *(3.8)*, 7th - 2.6 *(4.2)*, 8th - 3.0 *(4.8)*, 9th - 3.4 *(5.4)*, 10th - 3.7 *(6.0)*, 11th - 4.2 *(6.8)*, 12th - 4.8 *(7.8)*, 13th - 5.6 *(9.0)*, 14th - 6.5 *(10.4)*, 15th - 7.3 *(11.8)*, 16th - 8.3 *(13.4)*, 17th - 9.6 *(15.4)*, 18th - 11.1 *(17.8)*, 19th - 12.8 *(20.6)*, 20th - 14.8 *(23.8)*, 21st - 17.0 *(27.4)* High range: 1st - 2.4 *(3.8)*, 2nd - 2.6 *(4.2)*, 3rd - 3.0 *(4.8)*, 4th - 3.4 *(5.4)*, 5th - 3.7 *(6.0)*, 6th - 4.2 *(6.8)*, 7th - 4.7 *(7.6)*, 8th - 5.3 *(8.6)*, 9th - 6.0 *(9.6)*, 10th - 6.6 *(10.6)*, 11th - 7.3 *(11.8)*, 12th - 8.2 *(13.2)*, 13th - 9.2 *(14.8)*, 14th - 10.3 *(16.6)*, 15th - 11.7 *(18.8)*, 16th - 13.3 *(21.4)*, 17th - 15.0 *(24.2)*, 18th - 17.0 *(27.4)*, 19th - 19.4 *(31.2)*, 20th - 22.0 *(35.4)*, 21st - 25.0 *(40.2)* Reverse Low range: 1.1 *(1.8)*, 1.4 *(2.2)*, 1.6 *(2.6)*, 1.9 *(3.0)*, 2.1 *(3.4)*, 2.4 *(3.8)*, 2.6 *(4.2)*, 3.0 *(4.8)*, 3.4 *(5.4)*, 3.7 *(6.0)*, 4.2 *(6.8)*, 4.8 *(7.8)*, 5.6 *(9.0)*, 6.5 *(10.4)*, 7.3 *(11.8)*, 8.3 *(13.4)*, 9.6 *(15.4)*, 11.1 *(17.8)*

DRAWBAR PERFORMANCE

(Unballasted - Front Drive Engaged)
MAXIMUM POWER AT SELECTED SPEEDS

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)*
					Turtle 9				
89.7 *(66.9)*	15040 *(66.90)*	2.24 *(3.60)*	1820	15.0	0.558 *(0.340)*	12.33 *(2.43)*	144 *(62)*	61 *(16)*	29.9 *(101.3)*
					Turtle 10				
97.5 *(72.7)*	13020 *(57.92)*	2.81 *(4.52)*	1799	7.2	0.510 *(0.310)*	13.55 *(2.67)*	144 *(62)*	61 *(16)*	29.9 *(101.3)*
					Turtle 12				
99.5 *(74.2)*	10175 *(45.27)*	3.67 *(5.90)*	1801	4.1	0.503 *(0.306)*	13.74 *(2.71)*	140 *(60)*	55 *(13)*	29.9 *(101.2)*
					Turtle 13				
98.0 *(73.1)*	8125 *(36.14)*	4.52 *(7.28)*	1802	3.0	0.510 *(0.310)*	13.55 *(2.67)*	138 *(59)*	57 *(14)*	29.9 *(101.2)*
					Turtle 14				
97.9 *(73.0)*	6825 *(30.37)*	5.38 *(8.65)*	1799	2.4	0.510 *(0.310)*	13.55 *(2.67)*	144 *(62)*	57 *(14)*	29.9 *(101.2)*
					Turtle 16				
97.6 *(72.8)*	5600 *(24.92)*	6.54 *(10.52)*	1800	1.4	0.511 *(0.311)*	13.50 *(2.66)*	140 *(60)*	57 *(14)*	29.9 *(101.2)*
					Turtle 17				
101.6 *(75.8)*	4970 *(22.10)*	7.67 *(12.34)*	1803	1.5	0.521 *(0.317)*	13.25 *(2.61)*	144 *(62)*	57 *(14)*	29.9 *(101.2)*
					Turtle 18				
100.3 *(74.8)*	4465 *(19.86)*	8.43 *(13.56)*	1803	1.2	0.527 *(0.321)*	13.10 *(2.58)*	144 *(62)*	57 *(14)*	29.9 *(101.2)*
					Rabbit 8				
97.8 *(72.9)*	8660 *(38.51)*	4.23 *(6.81)*	1800	3.5	0.511 *(0.311)*	13.50 *(2.66)*	144 *(62)*	61 *(16)*	29.9 *(101.2)*
					Rabbit 10				
97.2 *(72.5)*	6710 *(29.84)*	5.43 *(8.75)*	1799	2.7	0.510 *(0.310)*	13.55 *(2.67)*	144 *(62)*	61 *(16)*	29.9 *(101.3)*
					Rabbit 12				
97.3 *(72.5)*	5795 *(25.77)*	6.30 *(10.14)*	1802	1.7	0.513 *(0.312)*	13.45 *(2.65)*	145 *(63)*	61 *(16)*	29.9 *(101.3)*
					Rabbit 13				
102.8 *(76.7)*	4970 *(22.11)*	7.75 *(12.48)*	1803	1.2	0.516 *(0.314)*	13.39 *(2.64)*	138 *(59)*	63 *(17)*	29.9 *(101.2)*
					Rabbit 14				
103.8 *(77.4)*	4445 *(19.77)*	8.76 *(14.10)*	1801	1.2	0.511 *(0.311)*	13.50 *(2.66)*	144 *(62)*	63 *(17)*	29.9 *(101.2)*

TRACTOR SOUND LEVEL WITH CAB	dB(A)
At no load in T12	70.4
Bystander in R21	84.4

TIRES AND WEIGHT **Tested Without Ballast**

Rear Tires - No., size, ply & psi*(kPa)*	Two 650/65R38;**;12*(80)*
Front Tires - No., size, ply & psi*(kPa)*	Two 540/65R28;**;12*(80)*
Height of Drawbar	22.0 in *(560 mm)*
Static Weight with operator - Rear	9170 lb *(4160 kg)*
- Front	5830 lb *(2645 kg)*
- Total	15000 lb *(6805 kg)*

High range: 2.4*(3.8)*, 2.6*(4.2)*, 3.0*(4.8)*, 3.4*(5.4)*, 3.7*(6.0)*, 4.2*(6.8)*, 4.7*(7.6)*, 5.3*(8.6)*, 6.0*(9.6)*, 6.6*(10.6)*, 7.3*(11.8)*, 8.2*(13.2)*, 9.2*(14.8)*, 10.3*(16.6)*, 11.7 *(18.8)* **Clutch** a foot pedal controls the hydrostatic oil flow **Brakes** multiple wet disc hydraulically operated by two foot pedals that can be locked together **Steering** hydrostatic **Power take-off** 540 rpm at 2062 engine rpm or 1000 rpm at 2033 engine rpm **Unladen tractor mass** 14835 lb *(6730 kg)*

NOTE 1: The performance figures on this report are the result of replacing the electronic engine control module of the Massey Ferguson 7480 with the Massey Ferguson 7475 module.

NOTE 2: The engine of the Massey Ferguson 7475 has two different injection pump characteristics. Power boosted - for travel speeds above 9.3 mph *(15.0 kmh)* or above 5.0 mph *(8.0 kmh)* with PTO engaged. Standard for all other conditions.

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 category IIIN 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.

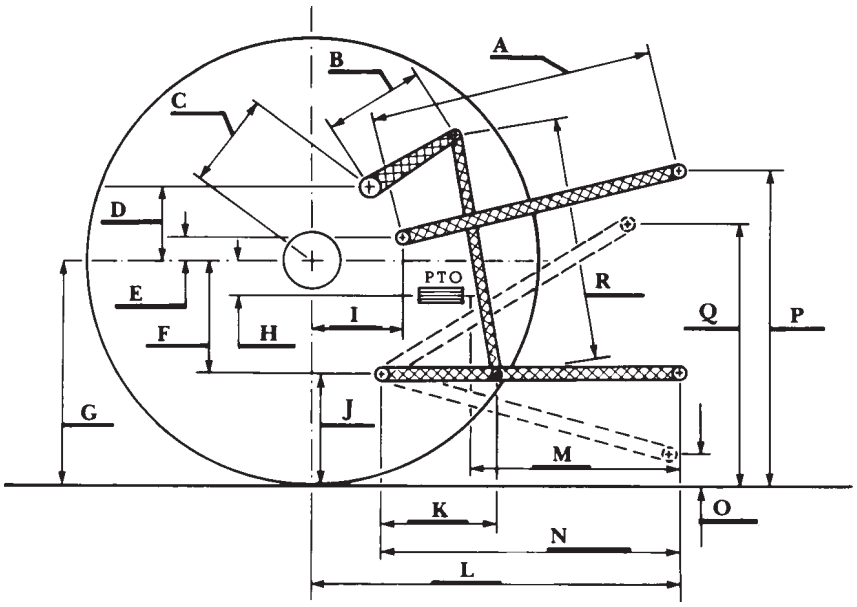
We, the undersigned, certify that this is a true summary of data from OECD Report No. **2194,** Nebraska Summary 471, March 15, 2006.

Leonard L. Bashford
Director

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

THREE POINT HITCH PERFORMANCE (OECD Static Test)

CATEGORY: II		
Quick Attach: None		
Maximum force exerted through whole range:	10915 lbs *(48.55 kN)*	
i) Opening pressure of relief valve:	NA	
Sustained pressure of the open relief valve:	2915 psi *(201 bar)*	
	one coupler set	two outlet sets combined
ii) Pump delivery rate at minimum pressure:	27.6 GPM *(104.3 l/min)*	31.7 GPM *(119.9 l/min)*
iii) Pump delivery rate at maximum hydraulic power:	26.9 GPM *(101.8 l/min)*	28.0 GPM *(106.1 l/min)*
Delivery pressure:	2310 psi *(159 bar)*	2685 psi *(185 bar)*
Power:	36.2 HP *(27.0 kW)*	43.8 HP *(32.6 kW)*



HITCH DIMENSIONS AS TESTED—NO LOAD

	inch	*mm*
A	29.1	*740*
B	14.0	*355*
C	13.8	*351*
D	11.6	*295*
E	5.5	*140*
F	9.8	*250*
G	32.2	*820*
H	2.8	*70*
I	17.5	*445*
J	22.4	*570*
K	26.2	*665*
L	45.1	*1145*
M	26.0	*660*
N	40.6	*1030*
O	7.9	*200*
P	46.5	*1180*
Q	36.2	*920*
R	29.3	*745*