SUMMARY OF OECD TEST 2625–NEBRASKA SUMMARY 795
MASSEY FERGUSON 5465 DIESEL
16 SPEED
SISU Engine

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—1084 rpm)					
105.8 *(78.9)*	2200	6.95 *(26.29)*	0.467 *(0.284)*	15.23 *(3.00)*	
Standard Power Take-off Speed(1000 rpm)					
122.8 *(91.6)*	2031	7.28 *(27.56)*	0.422 *(0.257)*	16.88 *(3.33)*	
Maximum Power (1 hour)					
123.7 *(92.3)*	2000	7.28 *(27.55)*	0.419 *(0.255)*	17.00 *(3.35)*	
VARYING POWER AND FUEL CONSUMPTION					
105.8 *(78.9)*	2200	6.95 *(26.29)*	0.467 *(0.284)*	15.23 *(3.00)*	Air temperature
90.2 *(67.3)*	2207	6.16 *(23.32)*	0.487 *(0.296)*	14.64 *(2.88)*	75°F *(24°C)*
67.5 *(50.3)*	2215	5.28 *(19.99)*	0.557 *(0.339)*	12.79 *(2.52)*	Relative humidity
45.6 *(34.0)*	2224	4.29 *(16.24)*	0.671 *(0.408)*	10.63 *(2.09)*	40%
22.8 *(17.0)*	2234	3.23 *(12.24)*	1.009 *(0.614)*	7.06 *(1.39)*	Barometer
-- --	2239	2.25 *(8.52)*	-- --	-- --	30.2" Hg *(102.2 kPa)*

Maximum torque - 405.3 lb.-ft. *(549.5 Nm)* at 1200 rpm
Maximum torque rise - 60.4%
Torque rise at 1750 engine rpm - 41%

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—7th(2C) Gear									
87.0 *(64.9)*	6990 *(31.1)*	4.66 *(7.50)*	2201	4.6	0.526 *(0.320)*	13.54 *(2.67)*	181 *(83)*	63 *(17)*	30.1 *(102.0)*
75% of Pull at Maximum Power—7th(2C) Gear									
66.5 *(49.6)*	5260 *(23.4)*	4.74 *(7.63)*	2208	3.7	0.580 *(0.353)*	12.27 *(2.42)*	179 *(82)*	64 *(18)*	30.1 *(102.0)*
50% of Pull at Maximum Power—7th(2C) Gear									
45.1 *(33.7)*	3515 *(15.6)*	4.81 *(7.74)*	2222	2.9	0.710 *(0.432)*	10.03 *(1.98)*	179 *(82)*	64 *(18)*	30.1 *(102.0)*
75% of Pull at Reduced Engine Speed—8th(2D) Gear									
66.0 *(49.2)*	5235 *(23.3)*	4.73 *(7.61)*	1793	3.7	0.506 *(0.308)*	14.06 *(2.77)*	178 *(81)*	64 *(18)*	30.1 *(102.0)*
50% of Pull at Reduced Engine Speed—8th(2D) Gear									
45.2 *(33.7)*	3515 *(15.6)*	4.82 *(7.76)*	1800	2.4	0.575 *(0.350)*	12.39 *(2.44)*	178 *(81)*	64 *(18)*	30.1 *(102.0)*

Location of tests: Groupement d'Antony, 1,rue Pierre-Gilles de Gennes, CS 10030 Antony, Cedex, France 92761
Dates of tests: June to July, 2011

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)*** 0.855 **Fuel weight** 7.12 lbs/gal *(0.853 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 Sisu Diesel **Type** six cylinder vertical with turbocharger and air to air intercooler **Serial No.** X10895 **Crankshaft** lengthwise **Rated engine speed** 2200 **Bore and stroke** 4.251" x 4.724" *(108.0 mm x 120.0 mm)* **Compression ratio** 17.4 to 1 **Displacement** 402 cu in *(6596 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 and variable speed fan

CHASSIS: Type front wheel assist **Serial No.** B133041 **Tread width** rear 66.9" *(1700 mm)* to 84.4" *(2144 mm)* front 63.7" *(1619 mm)* to 85.6" *(2174 mm)* **Wheelbase** 113.1" *(2874 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 1.35 *(2.17)* second 1.65 *(2.66)* third 2.02 *(3.25)* fourth 2.48 *(3.99)* fifth 3.19 *(5.14)* sixth 3.93 *(6.32)* seventh 4.78 *(7.70)* eighth 5.89 *(9.48)* ninth 6.48 *(10.43)* tenth 7.97 *(12.83)* eleventh 9.72 *(15.65)* twelfth 11.96 *(19.25)* thirteenth 13.86 *(22.31)* fourteenth 17.05 *(27.44)* fifteenth 20.80 *(33.47)* sixteenth 25.58 *(41.16)* reverse 1.35 *(2.17)*, 1.65 *(2.66)*, 2.02 *(3.25)*, 2.48 *(3.99)*, 3.19 *(5.14)*, 3.93 *(6.32)*, 4.78 *(7.70)*, 5.89 *(9.48)*, 6.48 *(10.43)*, 7.97 *(12.83)*, 9.72 *(15.65)*, 11.96 *(19.25)*, 13.86 *(22.31)*, 17.05 *(27.44)*, 20.80 *(33.47)*, 25.58 *(41.16)* **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 2030 engine rpm **Unladen tractor mass** 12500 lb *(5670 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 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)*
				4th(1D)Gear					
65.6	11535	2.13	2201	13.8	0.649	10.96	180	61	30.1
(48.9)	*(51.3)*	*(3.43)*			*(0.395)*	*(2.16)*	*(82)*	*(16)*	*(102.0)*
				5th(2A)Gear					
84.4	11410	2.77	2168	12.4	0.539	13.20	180	61	30.1
(62.9)	*(50.8)*	*(4.46)*			*(0.328)*	*(2.60)*	*(82)*	*(16)*	*(102.0)*
				6th (2B) Gear					
94.5	10300	3.44	2037	7.4	0.503	14.16	180	63	30.1
(70.5)	*(45.8)*	*(5.54)*			*(0.306)*	*(2.79)*	*(82)*	*(17)*	*(102.0)*
				7th(2C)Gear					
98.4	8740	4.22	2004	5.6	0.483	14.72	181	63	30.1
(73.4)	*(38.9)*	*(6.80)*			*(0.294)*	*(2.90)*	*(83)*	*(17)*	*(102.0)*
				8th(2D)Gear					
97.1	6935	5.25	2006	4.1	0.486	14.65	181	64	30.1
(72.4)	*(30.8)*	*(8.45)*			*(0.296)*	*(2.89)*	*(83)*	*(18)*	*(102.0)*
				9th(3A)Gear					
102.9	6610	5.84	2006	3.8	0.480	14.82	181	72	30.1
(76.7)	*(29.4)*	*(9.39)*			*(0.292)*	*(2.92)*	*(83)*	*(22)*	*(102.0)*
				10th (3B) Gear					
101.1	5305	7.15	1998	3.5	0.492	14.47	183	72	30.1
(75.4)	*(23.6)*	*(11.51)*			*(0.299)*	*(2.85)*	*(84)*	*(22)*	*(102.0)*
				*11th (3C) Gear					
100.6	4265	8.84	2010	5.0	0.489	14.56	183	70	30.1
(75.0)	*(19.0)*	*(14.23)*			*(0.298)*	*(2.87)*	*(84)*	*(21)*	*(102.0)*
				*12th (3D) Gear					
98.5	3475	10.63	2006	4.2	0.497	14.31	183	70	30.1
(73.5)	*(15.5)*	*(17.11)*			*(0.302)*	*(2.82)*	*(84)*	*(21)*	*(102.0)*

*Front Drive Disengaged

TRACTOR SOUND LEVEL WITH CAB	Front Wheel Drive Disengaged dB(A)	Engaged dB(A)
At no load in 7th (2C) gear	74.0	74.0
Bystander	- -	- -

TIRES AND WEIGHT

	Tested without ballast
Rear tires - No.,size, ply & psi*(kPa)*	Two 460/85R38; **;15*(100)*
Front tires - No.,size, ply & psi*(kPa)*	Two 380/85R28; **;15*(100)*
Height of Drawbar	18.9 in *(480 mm)*
Static Weight with operator- Rear	6945 lb *(3150 kg)*
- Front	5720 lb *(2595 kg)*
- Total	12665 lb *(5745 kg)*

REPAIRS AND ADJUSTMENTS: No repairs or adjustments

NOTE 1: The engine on this tractor is electronically controlled to give 2 power levels. A "boosted" level is available when the PTO is engaged, tractor stationary, and when the tractor is operated in ranges 3 and 4.

NOTE 2: The performance figures on this report apply to tractors equipped with a Sisu engine.

REMARKS: All test results were determined from observed data obtained in accordance with official OECD test procedures. The manufacturer's remote hydraulic flow claim of 26 GPM *(100 lpm)* 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. **2625**, Nebraska Summary 795, November 21, 2011.

Roger M. Hoy
Director

M.F. Kocher
D.R. Keshwani
P.J. Jasa
Board of Tractor Test Engineers

HYDRAULIC PERFORMANCE

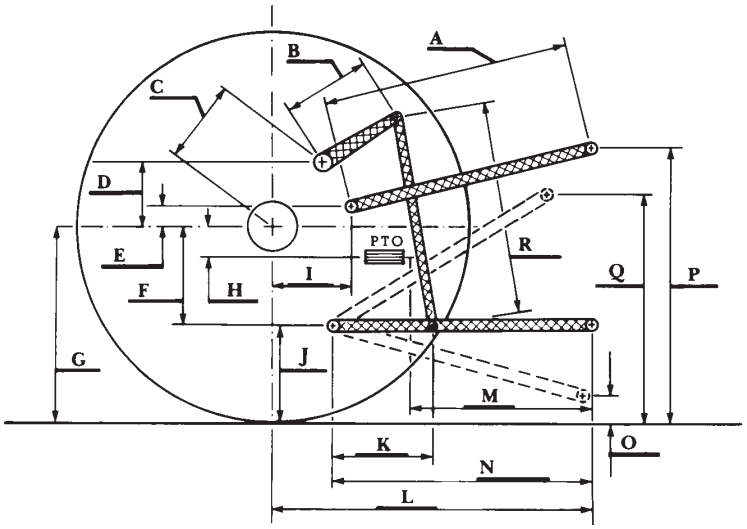
CATEGORY: II
Quick Attach: None
OECD Static test
Maximum force exerted through whole range: 9189 lbs *(40.9 kN)* (75 mm lift cylinders)

two outlet sets combined

	57 l/min pump		110 l/min pump	
i) Sustained pressure of the open relief valve:	2830 psi	*(195 bar)*	2755 psi	*(190 bar)*
ii) Pump delivery rate at minimum pressure:	15.8 GPM	*(59.8 l/min)*	30.0 GPM	*(113.4 l/min)*
iii) Pump delivery rate at maximum				
hydraulic power:	14.7 GPM	*(55.6 l/min)*	26.0 GPM	*(98.5 l/min)*
Delivery pressure:	2425 psi	*(167 bar)*	2220 psi	*(153 bar)*
Power:	20.8 Hp	*(15.5 kW)*	33.7 hp	*(25.1 kW)*

single outlet set

ii) Pump delivery rate at minimum pressure:	15.6 GPM	*(58.9 l/min)*	29.6 GPM	*(112.2 l/min)*
iii) Pump delivery rate at maximum				
hydraulic power:	14.6 GPM	*(55.3 l/min)*	25.7 GPM	*(97.4 l/min)*
Delivery pressure:	2395 psi	*(165 bar)*	1915 psi	*(132 bar)*
Power:	20.4 Hp	*(15.2 kW)*	28.7 hp	*(21.4 kW)*

HITCH DIMENSIONS AS TESTED—NO LOAD

	inch	*mm*
A	24.8	*629*
B	11.6	*295*
C	13.9	*353*
D	13.0	*330*
E	7.9	*200*
F	10.2	*260*
G	30.3	*770*
H	1.4	*35*
I	16.2	*413*
J	20.1	*510*
K	24.2	*615*
L	41.2	*1046*
M	23.5	*596*
N	37.2	*946*
O	8.0	*203*
P	44.1	*1120*
Q	33.5	*850*
R	29.0	*737*