1993

Nebraska Summary: S299 AGCO Allis 5660

Nebraska Tractor Test Laboratory
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SUMMARY OF OECD TEST 1501/3—NEBRASKA SUMMARY 299
SAME ARGON 60 VDT DIESEL
ALSO AGCO ALLIS 5660 DIESEL
12 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 1024 rpm)					
57.0 *(42.5)*	2355	3.30 *(12.48)*	0.404 *(0.246)*	17.26 *(3.40)*	
Standard Power Take-off speed (1000 rpm)					
56.3 *(42.0)*	2300	3.23 *(12.23)*	0.395 *(0.244)*	17.41 *(3.43)*	
VARYING POWER AND FUEL CONSUMPTION					
57.0 *(42.5)*	2355	3.30 *(12.48)*	0.404 *(0.246)*	17.26 *(3.40)*	Air temperature
50.0 *(37.3)*	2446	2.84 *(10.75)*	0.398 *(0.242)*	17.60 *(3.47)*	75°F *(24°C)*
38.2 *(28.5)*	2492	2.31 *(8.75)*	0.422 *(0.257)*	16.55 *(3.26)*	Relative humidity
25.9 *(19.3)*	2521	1.81 *(6.85)*	0.488 *(0.297)*	14.31 *(2.82)*	72%
13.0 *(9.7)*	2548	1.29 *(4.88)*	0.694 *(0.422)*	10.09 *(1.99)*	Barometer
-- --	2565	0.81 *(3.08)*	-- --	-- --	29.1" Hg *(98.6 kPa)*

Maximum Torque -136 lb.-ft. *(186 Nm)* at 1544 rpm
Maximum Torque Rise -7.3%
Torque rise at 1920 engine rpm -6%

DRAWBAR PERFORMANCE
BALLASTED - 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 cool-ing med	(°C) Air dry bulb	Barom. inch Hg *(kPa)*
75% of Pull at Maximum Power Five Hours 7th (3N) Gear									
27.5 *(20.5)*	3600 *(16.01)*	2.86 *(4.61)*	2508	7	0.518 *(0.315)*	13.50 *(2.66)*	air cld	73 *(23)*	29.5 *(99.8)*
MAXIMUM POWER IN SELECTED GEARS									
7th (3N) Gear									
33.3 *(24.8)*	4795 *(21.33)*	2.60 *(4.19)*	2495	15	0.483 *(0.294)*	14.47 *(2.85)*	air cld	73 *(23)*	29.5 *(99.8)*
8th (4N) Gear									
48.4 *(36.1)*	4555 *(20.27)*	3.98 *(6.41)*	2400	15	0.437 *(0.266)*	15.99 *(3.15)*	air cld	73 *(23)*	29.4 *(99.7)*
9th (1F) Gear									
48.8 *(36.4)*	3030 *(13.48)*	6.04 *(9.71)*	2350	5	0.475 *(0.289)*	14.72 *(2.90)*	air cld	73 *(23)*	29.4 *(99.7)*
10th (2F) Gear									
40.7 *(30.4)*	1555 *(6.91)*	9.82 *(15.81)*	2350	2	0.569 *(0.346)*	12.28 *(2.42)*	air cld	73 *(23)*	29.4 *(99.7)*

Location of Test: ISMA Via Milano 43, 24047 Treviglio BG Italy
Dates of Test: July, 1993
Sound level test on AGCO Allis 5660 - March 21, 1995. (Sound level tests performed at University of Nebraska Tractor Testing Laboratory, Lincoln, Nebraska U.S.A.)

Manufacturer: S+L+H S.p.A. V.le F. Cassani 15, 24047 Treviglio BG Italy

FUEL and OIL: Fuel No. 2 Diesel **Specific gravity converted to 60°/60° F *(15°/15°C)*** 0.840 **Fuel weight** 7.01 lbs/gal *(0.838 kg/l)* **Oil SAE** 30 **API service classification** CE **Oil consumption for 10 hours** 0.66 lb *(300 gm)* **Transmission and hydraulic lubricant** AKROS Multi 95 fluid **Front axle lubricant** SAE 95 API GL-4

ENGINE: Make S+L+H Diesel **Type** three cylinder vertical **Serial No.** 1038 **Crankshaft** lengthwise **Rated Engine speed** 2350 **Bore and stroke** 4.134" x 4.547" *(105 mm x 115.5 mm)* **Compression ratio** 17 to 1 **Displacement** 183 cu in *(3000 ml)* **Starting system** 12 volt **Lubrication** pressure **Air cleaner** two paper elements **Oil filter** one full flow cartridge **Oil cooler** radiator for crankcase oil **Fuel filter** one paper element **Muffler** vertical **Cooling medium temperature control** air cooled

CHASSIS: Type front wheel assist **Serial No.** 1015 **Tread width** rear 51.2" *(1300 mm)* to 55.1" *(1400 mm)* front 52.8" *(1340 mm)* to 60.6" *(1540 mm)* **Wheel base** 80.9"*(2056 mm)* **Hydraulic control system** direct engine drive **Transmission** selective gear fixed ratio **Nominal travel speeds mph *(km/h)*** first 0.18 *(0.29)* second 0.29 *(0.47)* third 0.46 *(0.74)* fourth 0.73 *(1.17)* fifth 1.16 *(1.86)* sixth 1.83 *(2.95)* seventh 2.90 (*4.67)* eighth 4.56 *(7.34)* ninth 6.36 *(10.24)* tenth 10.10 *(16.26)* eleventh16.10 *(25.91)* twelfth 25.34 *(40.78)* reverse 0.17 *(0.28)*, 0.27*(0.44)*, 0.43*(0.70)*, 0.69*(1.11)*, 1.09 *(1.76)*, 1.74*(2.80)*, 2.75*(4.43)*, 4.37*(7.03)*, 6.04, *(9.72)*, 9.54 *(15.36)*, 15.16 *(24.39)*, 24.15 *(38.87)* **Clutch** single dry disc operated by foot pedal **Brakes** wet multiple disc hydraulically operated by two foot pedals which can be locked together **Steering** hydrostatic **Power take-off** 540 rpm at 2044 engine rpm or 1000 rpm at 2300 engine rpm (For U.S. market - 540 rpm at 2079 engine rpm) **Unladen tractor mass** 5180 lb *(2350 kg)*

TRACTOR SOUND LEVEL WITHOUT CAB	Front Wheel Drive Engaged dB(A)	Front Wheel Drive Disengaged dB(A)
Maximum sound level - in 10th (1FH) gear	100.0	100.0
Bystander in 12th (4F) gear		83.0

CENTER OF GRAVITY

Horizontal distance forward from centerline of rear wheels	34.7 in *(882 mm)*
Vertical distance above roadway	30.1 in *(765 mm)*
Horizontal distance from center of rear wheel tread	0 in *(0 mm)* to the right/left

TURNING ON A CONCRETE SURFACE

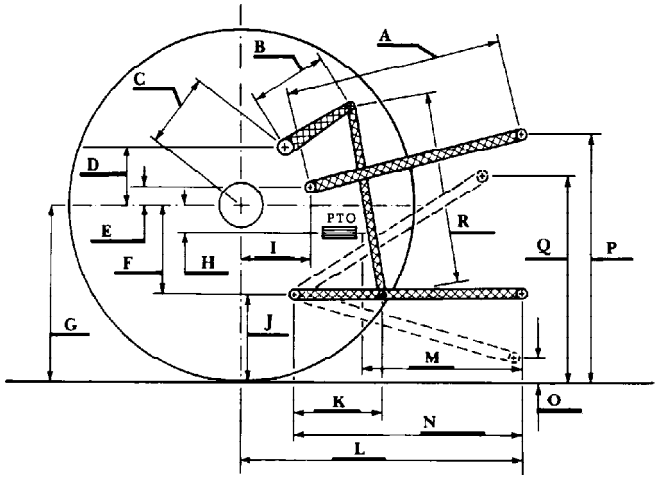
Turning radius - with brake applied	right 116" *(2.95 m)* left 130" *(3.30 m)*
- without brake	right 160" *(4.05 m)* left 160" *(4.05 m)*
Turning space radius - with brake applied	right 120" *(3.05 m)* left 134" *(3.40 m)*
- without brake	right 164" *(4.15 m)* left 164" *(4.15 m)*

TIRES, BALLAST AND WEIGHT		With Ballast	Without Ballast
Rear Tires	- No., size, ply & psi *(kPa)*	Two 16.9R30; **;23 *(160)*	Two 16.9R30; **;23 *(160)*
Ballast	- Liquid (total)	None	None
	- Cast Iron (total)	440 lb *(200 kg)*	None
Front Tires	- No., size, ply & psi *(kPa)*	Two 11.2R24; **;23 *(160)*	Two 11.2R24; **;23 *(160)*
Ballast	- Liquid (total)	None	None
	- Cast Iron (total)	310 lb *(140 kg)*	None
Height of Drawbar		22.0 in *(560 mm)*	22.0 in *(560 mm)*
Static Weight with Operator	- Rear	3470 lb *(1575 kg)*	3055 lb *(1385 kg)*
	- Front	2625 lb *(1190 kg)*	2290 lb *(1040 kg)*
	-Total	6095 lb *(2765 kg)*	5345 lb *(2425 kg)*

THREE POINT HITCH PERFORMANCE (OECD Static Test)

CATEGORY: II
Quick Attach: None

Maximum Force Exerted Through Whole Range:	4530 lbs	*(20.15 kN)*
i) Opening pressure of relief valve:	NA	
Sustained pressure with relief valve open:	2610 psi	*(180 bar)*
ii) Pump delivery rate at minimum pressure:	9.5 GPM	*(36.0 l/min)*
iii) Pump delivery rate at maximum hydraulic power:	8.7 GPM	*(32.8 l/min)*
Delivery pressure:	2320 psi	*(160 bar)*
Power:	11.7 HP	*(8.75 kW)*



	inch	*mm*
A	21.9	*556*
B	9.8	*250*
C	14.2	*361*
D	12.4	*315*
E	10.2	*260*
F	6.1	*154*
G	27.4	*695*
H	0.2	*5*
I	16.0	*407*
J	21.3	*541*
K	15.7	*400*
L	37.7	*957*
M	20.4	*517*
N	30.5	*774*
O	7.9	*200*
P	45.3	*1151*
Q	34.4	*874*
R	24.0	*610*

HITCH DIMENSIONS AS TESTED NO LOAD

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 manufacturers claim of 11.8 GPM *(44.6 l/min)* flow at the remote outlets. The performance results on this summary were taken from OECD tests conducted under the Code I Test procedure.

We, the undersigned, certify that this is a true summary of data from OECD Report No. **1501/3**, Nebraska Summary 299, January 5, 2000.

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