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January 1993

Test 1497/3: Same Argon 50 VDT/AGCO Allis 5650 Diesel

Nebraska Tractor Test Lab

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SUMMARY OF OECD TEST 1497/3—NEBRASKA SUMMARY 298

SAME ARGON 50 VDT DIESEL

ALSO AGCO ALLIS 5650 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—1022 rpm)					
46.9 (35.0)	2351	2.80 (10.50)	0.413 (0.251)	16.93 (3.33)	
Standard Power Take-off speed (1000 rpm)					
46.7 (34.8)	2300	2.73 (10.32)	0.409 (0.249)	17.10 (3.37)	

VARYING POWER AND FUEL CONSUMPTION

46.9 (35.0)	2351	2.80 (10.50)	0.413 (0.251)	16.93 (3.33)	Air temperature
41.0 (30.6)	2431	2.43 (9.21)	0.414 (0.252)	16.85 (3.32)	81°F (27°C)
31.2 (23.3)	2465	2.01 (7.61)	0.450 (0.274)	15.53 (3.06)	Relative humidity
21.1 (15.7)	2482	1.55 (5.88)	0.516 (0.314)	13.55 (2.67)	76%
10.6 (7.9)	2508	1.22 (4.61)	0.804 (0.489)	8.71 (1.72)	Barometer
-- --	2529	0.85 (3.20)	-- --	-- --	29.1" Hg (98.7 kPa)

Maximum Torque -123.6 lb.-ft. (167.6 Nm) at 1305 rpm

Maximum Torque Rise -17.8%

Torque rise at 1850 engine rpm -11%

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)	Hp.hr/gal (kW.h/l)	Temp.°F (°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
75% of Pull at Maximum Power—Five Hours 8th (4N) Gear									
36.2 (27.0)	3110 (13.83)	4.36 (7.02)	2422	3	0.492 (0.299)	14.24 (2.81)	air cld	77 (25)	29.5 (100.0)

MAXIMUM POWER IN SELECTED GEARS

7th (3N) Gear									
29.8 (22.2)	4385 (19.50)	2.55 (4.10)	2451	15	0.559 (0.340)	12.51 (2.46)	air cld	73 (23)	29.5 (99.8)
8th (4N) Gear									
43.8 (32.7)	4145 (18.44)	3.97 (6.39)	2350	13	0.426 (0.259)	16.40 (3.23)	air cld	72 (22)	29.4 (99.7)
9th (1F) Gear									
39.3 (29.3)	2500 (11.12)	5.89 (9.48)	2352	6	0.478 (0.291)	14.62 (2.88)	air cld	72 (22)	29.5 (99.8)

Location of Test: ISMA Via Milano 43, 24047 Treviglio BG Italy

Dates of Test: July - September, 1993

Sound tests on AGCO Allis 5650 Diesel - March 20, 1996. (Sound 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** 0.77 lb (350 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.** 1035 **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** 75.8" (1926 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 (0.46) third 0.45 (0.73) fourth 0.72 (1.16) fifth 1.15 (1.85) sixth 1.82 (2.93) seventh 2.88 (4.64) eighth 4.57 (7.35) ninth 6.32 (10.17) tenth 10.04 (16.15) eleventh 15.99 (25.74) twelfth 25.17 (40.50) reverse 0.17 (0.28), 0.27 (0.44), 0.43 (0.70), 0.68 (1.10), 1.09 (1.75), 1.73 (2.78), 2.73 (4.40), 4.34 (6.98), 6.00 (9.65), 9.52 (15.32), 15.17 (24.42), 23.88 (38.43) **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** 4720 lb (2140 kg)

TRACTOR SOUND LEVEL WITHOUT CAB	Front Wheel Drive Engaged	Disengaged
	dB(A)	dB(A)
Maximum sound level - in 10th (1FH) gear	97.0	97.0
Bystander in 12th (4F) gear		80.0

CENTER OF GRAVITY

Horizontal distance forward from centerline of rear wheels	34.8 in (883 mm)
Vertical distance above roadway	29.8 in (758 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 112" (2.85 m) left 129" (3.27 m)	
- without brake right 144" (3.65 m) left 148" (3.75 m)	
Turning space radius - with brake applied right 116" (2.95 m) left 133" (3.37 m)	
- without brake right 148" (3.75 m) left 152" (3.85 m)	

TIRES, BALLAST AND WEIGHT		With Ballast	Without Ballast
Rear Tires	- No., size, ply & psi (kPa)	Two 14.9R28; **,23 (160)	Two 14.9R28; **,23 (160)
Ballast	- Liquid (total)	None	None
	- Cast Iron (total)	440 lb (200 kg)	None
Front Tires	- No., size, ply & psi (kPa)	Two 11.2R20; **,23 (160)	Two 11.2R20; **,23 (160)
Ballast	- Liquid (total)	None	None
	- Cast Iron (total)	310 lb (140 kg)	None
Height of Drawbar		19.9 in (505 mm)	19.9 in (505 mm)
Static Weight with Operator	- Rear	3065 lb (1390 kg)	2645 lb (1200 kg)
	- Front	2570 lb (1165 kg)	2240 lb (1015 kg)
	- Total	5635 lb (2555 kg)	4885 lb (2215 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 manufacturers claim of 11.8 GPM (44.6 l/min) hydraulic 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. **1497/3**, Nebraska Summary 298, January 5, 2000.

Brent T. Sampson
Test Engineer

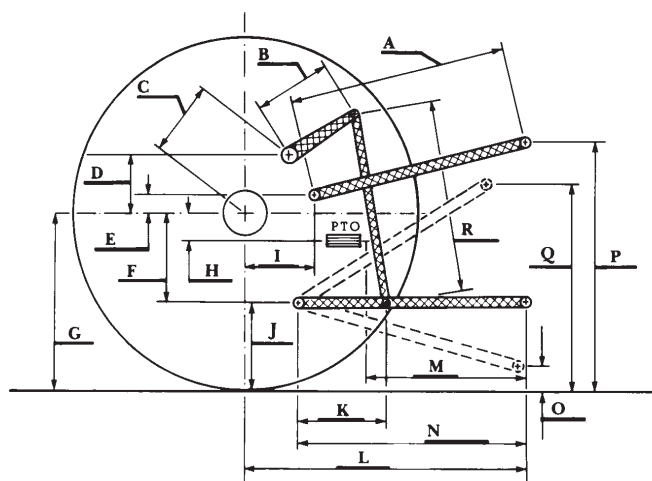
L.L. Bashford
M.F. Kocher
R.D. Grisso Jr.
Board of Tractor Test Engineers

THREE POINT HITCH PERFORMANCE (OECD Static Test)

CATEGORY: I

Quick Attach: None

Maximum Force Exerted Through Whole Range:	4165 lbs	(18.52 kN)
i) Opening pressure of relief valve:	NA	
Sustained pressure with relief valve open:	2540 psi	(175 bar)
ii) Pump delivery rate at minimum pressure:	8.7 GPM	(33.0 l/min)
iii) Pump delivery rate at maximum		
hydraulic power:	8.2 GPM	(31.1 l/min)
Delivery pressure:	2175 psi	(150 bar)
Power:	10.4 HP	(7.78 kW)



HITCH DIMENSIONS AS TESTED—NO LOAD

	inch	mm
A	20.3	515
B	9.8	250
C	14.2	361
D	12.4	315
E	11.6	295
F	6.1	154
G	25.2	640
H	0	0
I	15.6	397
J	19.1	486
K	15.7	400
L	35.2	893
M	17.8	453
N	28.0	710
O	7.9	200
P	37.2	946
Q	33.3	845
R	24.0	610