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1986

Nebraska Summary: S004 Deutz-Allis 6250

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SUMMARY OF OECD TEST 1000—NEBRASKA SUMMARY 004
DEUTZ FAHR DX 3.30 DIESEL
ALSO DEUTZ ALLIS 6250 DIESEL
16 SPEED

POWER TAKE-OFF PERFORMANCE

Power HP *(kW)*	Crank shaft speed rpm	Fuel Consumption 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—613 rpm)					
50.7 *(37.8)*	2500	3.06 *(11.58)*	0.422 *(0.257)*	16.55 *(3.26)*	
Standard Power Take-off Speed (540 rpm)					
47.7 *(35.6)*	2202	2.76 *(10.45)*	0.406 *(0.247)*	17.26 *(3.40)*	Air temperature
VARYING POWER AND FUEL CONSUMPTION					64°F *(18°C)*
44.0 *(32.8)*	2551	2.67 *(10.10)*	0.424 *(0.258)*	16.50 *(3.25)*	
....	2674	0.91 *(3.43)*	....	....	Relative humidity
22.5 *(16.8)*	2622	1.75 *(6.62)*	0.542 *(0.330)*	12.89 *(2.54)*	95%
50.7 *(37.8)*	2500	3.06 *(11.58)*	0.422 *(0.257)*	16.55 *(3.26)*	Barometer
11.4 *(8.5)*	2648	1.32 *(4.99)*	0.810 *(0.493)*	8.63 *(1.70)*	29.6″ Hg *(99.9 kPa)*
33.4 *(24.9)*	2590	2.19 *(8.28)*	0.459 *(0.279)*	15.28 *(3.01)*	

Maximum Torque 122.2 lb. ft *(166 Nm)* @ 1601 RPM
Maximum Torque Rise 15%

DRAWBAR PERFORMANCE (Front Drive Engaged)

Power Hp *(kW)*	Drawbar pull *(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 6th (1HN)									
34.1 *(25.4)*	3185 *(14.16)*	4.01 *(6.46)*	2564	3.4	0.506 *(0.308)*	13.81 *(2.72)*	131 *(55)*	45 *(7)*	29.6 *(99.9)*
MAXIMUM POWER IN SELECTED GEARS									
2nd Gear (1L + 20%)									
36.3 *(27.1)*	8800 *(39.14)*	1.55 *(2.49)*	2535	15.0	0.544 *(0.331)*	12.84 *(2.53)*	172 *(78)*	55 *(13)*	29.6 *(100.1)*
3rd Gear (2LN)									
41.0 *(30.6)*	7310 *(32.51)*	2.11 *(3.39)*	2499	9.4	0.518 *(0.315)*	13.50 *(2.66)*	178 *(81)*	57 *(14)*	29.6 *(100.1)*
4th Gear (2L + 20%)									
42.5 *(31.7)*	6010 *(26.73)*	2.65 *(4.27)*	2499	6.9	0.501 *(0.305)*	13.96 *(2.75)*	189 *(87)*	57 *(14)*	29.6 *(100.1)*
5th Gear (3LN)									
42.8 *(31.9)*	5000 *(22.25)*	3.21 *(5.16)*	2501	5.5	0.501 *(0.305)*	13.96 *(2.75)*	189 *(87)*	57 *(14)*	29.6 *(99.9)*
6th Gear (1HN)									
43.9 *(32.7)*	4245 *(18.88)*	3.87 *(6.23)*	2501	4.5	0.490 *(0.298)*	14.31 *(2.82)*	181 *(83)*	57 *(14)*	29.6 *(99.9)*
7th Gear (3L + 20%)									
43.3 *(32.3)*	4100 *(18.24)*	3.96 *(6.37)*	2500	4.4	0.493 *(0.300)*	14.16 *(2.79)*	174 *(79)*	57 *(14)*	29.6 *(99.9)*
8th Gear (1H + 20%)									
44.5 *(33.2)*	3480 *(15.48)*	4.79 *(7.71)*	2502	3.6	0.482 *(0.293)*	14.57 *(2.87)*	178 *(81)*	57 *(14)*	29.6 *(99.9)*
9th Gear (4LN)									
43.0 *(32.1)*	3140 *(13.96)*	5.15 *(8.29)*	2502	3.3	0.496 *(0.302)*	14.11 *(2.78)*	180 *(82)*	57 *(14)*	29.6 *(99.9)*

Location of Test: DLG Testing Station for Agricultural Machinery, West Germany

Dates of Test: October 1985 until January 1986

Manufacturer: Klockner-Humboldt-Deutz AG, 5000 Cologne 80, West Germany

FUEL AND OIL: Fuel No. 2 Diesel **Cetane No.** NA **Specific gravity converted to 60°/60°F** ***(15°/15°C)*** 0.842 **Fuel weight** 7.01 lbs/gal *(0.840 kg/l)* **Oil SAE** 15W40 **Oil Consumption for 10 hours** 2.67 lb *(1211 gm)* **Transmission lubricant** SAE 15W40 **Final drive lubricant** SAE 90 API GL-5.

ENGINE: Make Deutz Diesel **Type** three cylinder vertical **Serial No.** 6972366 **Crankshaft** lengthwise **Rated rpm** 2500 **Bore and stroke** 3.937″ × 4.724″ *(100 mm × 120 mm)* **Compression ratio** 17 to 1 **Displacement** 172 cu in *(2827 ml)* **Starting system** 12 volt **Lubrication** pressure **Air cleaner** dry paper element filter with precleaner **Oil filter** full flow cartridge **Oil cooler** separate radiators for crankcase and hydraulic oils **Fuel filter** replaceable cartridge **Muffler** vertical.

CHASSIS: Type four wheel drive **Serial No.** 7736 0002 **Tread width** rear 55.9″ *(1420 mm)* to 75.6″ *(1920 mm)* front 59.1″ *(1500 mm)* to 65.0″ *(1650 mm)* **Wheel base** 81.9″ *(2079 mm)* **Hydraulic control system** direct engine drive **Transmission** selective gear fixed ratio **Nominal travel speeds mph *(km/h)*** first 1.44 *(2.32)* second 1.76 *(2.84)* third 2.29 *(3.68)* fourth 2.80 *(4.51)* fifth 3.34 *(5.38)* sixth 4.00 *(6.44)* seventh 4.10 *(6.59)* eighth 4.90 *(7.89)* ninth 5.26 *(8.46)* tenth 6.36 *(10.24)* eleventh 6.45 *(10.38)* twelfth 7.80 *(12.55)* thirteenth 9.29 *(14.95)* fourteenth 11.38 *(18.32)* fifteenth 14.62 *(23.53)* sixteenth 17.93 *(28.85)* reverse 1.63 *(2.62)*, 1.99 *(3.21)*, 2.59 *(4.17)*, 3.18 *(5.11)*, 3.78 *(6.08)*, 4.64 *(7.46)*, 5.95 *(9.58)*, 7.30 *(11.74)* **Clutch** dry dual disc operated by foot pedal **Brakes** caliper disc hydraulically operated by two foot pedals which can be locked together **Steering** hydrostatic **Power take-off** 540 rpm at 2202 engine rpm and 1000 rpm at 2389 engine rpm **Unladen tractor mass** 7145 lb *(3240 kg)*.

REPAIRS AND ADJUSTMENTS: No repairs or adjustments.

TRACTOR SOUND LEVEL	dB(A)
Maximum sound level	84.0
Bystander in 16th (4H + 20%) gear	88.0

CENTER OF GRAVITY

Horizontal distance forward from centerline of rear wheels	33.5″ in *(850 mm)*
Vertical distance above roadway	33.7″ in *(857 mm)*
Horizontal distance from center of rear wheel tread 0.2″ *(6 mm)* to the left	

TURNING ON A CONCRETE SURFACE

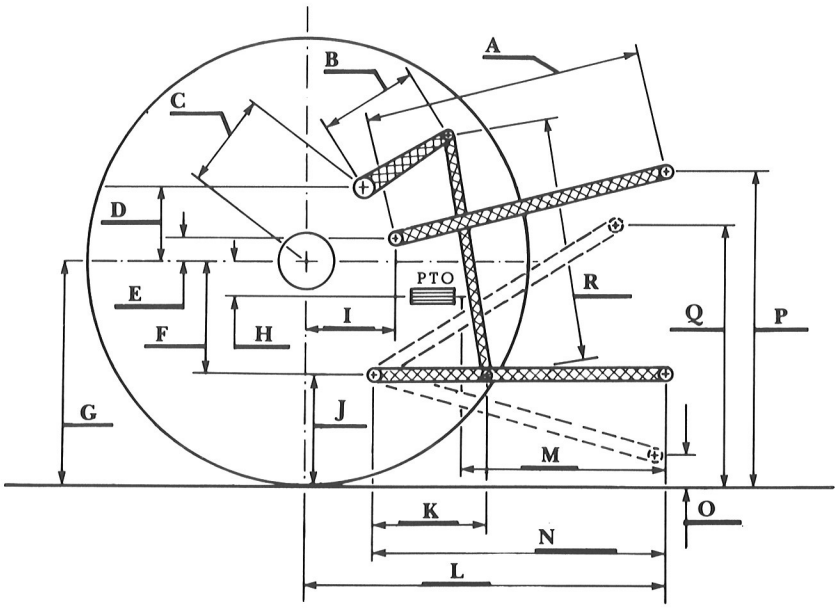
Turning radius—with brake applied right 161″ *(4.10 m)* left 139″ *(3.53 m)*
—without brake right 193″ *(4.91 m)* left 163″ *(4.15 m)*
Turning space radius—with brake applied right 172″ *(4.37 m)* left 150″ *(3.82 m)*
—without brake right 204″ *(5.18 m)* left 175″ *(4.44 m)*

TIRES, BALLAST AND WEIGHT		With Ballast	Without Ballast
Rear Tires	—No., size, ply & psi *(kPa)*	Two 16.9R30; 6; 12 *(80)*	Two 16.9R30; 6; 12 *(80)*
Ballast	—Liquid (total)	815 lb *(370 kg)*	None
	—Cast Iron (total)	None	None
Front Tires	—No., size, ply & psi *(kPa)*	Two 11.2-24; 8; 20 *(140)*	Two 11.2-24; 8; 13 *(90)*
Ballast	—Liquid (total)	320 lb *(145 kg)*	None
	—Cast Iron (total)	355 lb *(160 kg)*	None
Height of Drawbar		20 in *(510 mm)*	20.5 in *(520 mm)*
Static Weight	—Rear	5070 lb *(2300 kg)*	4330 lb *(1965 kg)*
	—Front	3750 lb *(1700 kg)*	3000 lb *(1360 kg)*
	—Total	8820 lb *(4000 kg)*	7330 lb *(3325 kg)*

THREE POINT HITCH PERFORMANCE (STATIC TEST)

CATEGORY: II
Quick Attach: None

Maximum Force Exerted Through Whole Range:	3685 lbs *(16.40 kN)*
i) Opening pressure of relief valve:	NA
Sustained pressure of the open relief valve:	2575 psi *(181 Bar)*
ii) Pump delivery rate at minimum pressure and rated engine speed:	11.6 GPM*(43.9 l/min)*
iii) Pump delivery rate at maximum hydraulic power:	11.0 GPM*(41.5 l/min)*
Delivery pressure:	2345 psi *(165 Bar)*
Power:	15.3 Hp *(11.4 kW)*



Hitch Dimensions as Tested — No Load

	inch	*mm*
A	24.5	*622*
B	11.0	*280*
C	12.4	*316*
D	12.3	*312*
E	9.1	*231*
F	6.5	*165*
G	27.4	*695*
H	2.3	*59*
I	11.7	*296*
J	20.9	*530*
K	19.4	*492*
L	35.6	*905*
M	18.9	*480*
N	32.2	*817*
O	7.9	*200*
P	39.9	*1013*
Q	33.3	*847*
R	24.8	*630*

REMARKS: All test results were determined from observed data obtained in accordance with official OECD test procedures.
The cooling medium temperatures were taken at the engine cylinder head.

We, the undersigned, certify that this is a true summary of data from OECD Report No. **1000,** Nebraska Summary 004, June 3. 1987.

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