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January 1991

Test 1338/2: Hurlimann 6135 VDT Diesel

Nebraska Tractor Test Lab

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SUMMARY OF OECD TEST 1338/2—NEBRASKA SUMMARY 338

HURLIMANN 6135 VDT DIESEL

48 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 1033 rpm)					
125.4 (93.5)	2501	7.19 (27.23)	0.399 (0.243)	17.43 (3.43)	
Standard Power Take-off speed (1001 rpm)					
124.1 (92.5)	2424	7.01 (26.55)	0.393 (0.239)	17.71 (3.49)	
VARYING POWER AND FUEL CONSUMPTION					
125.4 (93.5)	2501	7.19 (27.23)	0.399 (0.243)	17.43 (3.43)	Air temperature
110.0 (82.0)	2574	6.68 (25.28)	0.423 (0.257)	16.46 (3.24)	72°F (22°C)
84.2 (62.8)	2623	5.53 (20.95)	0.457 (0.278)	15.23 (3.00)	Relative humidity
56.9 (42.4)	2659	4.40 (16.64)	0.540 (0.328)	12.89 (2.54)	60%
28.7 (21.4)	2685	3.29 (12.46)	0.799 (0.486)	8.71 (1.72)	Barometer
-- --	2709	2.18 (8.26)	-- --	-- --	29.2" Hg (99.0 kPa)

Maximum Torque -376.5 lb.-ft. (510.5 Nm) at 1319 rpm

Maximum Torque Rise -42.8%

Torque rise at 1950 engine rpm -24%

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 35th (6N Lo) Gear									
76.3 (56.9)	6615 (29.42)	4.33 (6.96)	2572	7	0.614 (0.373)	11.33 (2.23)	191 (88)	61 (16)	29.5 (99.8)
MAXIMUM POWER IN SELECTED GEARS									
33rd (5N Lo) Gear									
90.3 (67.3)	11270 (50.14)	3.00 (4.83)	2513	15	0.557 (0.339)	12.49 (2.46)	178 (81)	61 (16)	29.4 (99.5)
34th (5N Hi) Gear									
94.7 (70.6)	9720 (43.23)	3.65 (5.88)	2498	11	0.536 (0.326)	12.99 (2.56)	180 (82)	63 (17)	29.4 (99.4)
35th (6N Lo) Gear									
96.8 (72.2)	8835 (39.31)	4.11 (6.61)	2501	9	0.524 (0.319)	13.28 (2.62)	178 (81)	63 (17)	29.4 (99.3)
36th (6N Hi) Gear									
98.3 (73.3)	7590 (33.77)	4.86 (7.82)	2513	8	0.511 (0.311)	13.62 (2.68)	180 (82)	63 (17)	29.4 (99.3)
37th (1F Lo) Gear									
96.6 (72.0)	6785 (30.18)	5.34 (8.59)	2516	7	0.513 (0.312)	13.56 (2.67)	178 (81)	63 (17)	29.4 (99.3)

Location of Test: Istituto Per La Meccanizzazione Agricola (IMA) Strada delle Cacce, 73-10135 Torino, Italy

Dates of Test: October - November, 1991

Manufacturer: S+L+H S.p.A., Viale Cassani, 15- 24047, Treviglio, Italy

FUEL, OIL and TIME: Fuel No. 2 Diesel Specific gravity converted to 60°/60° F (15°/15°C) 0.836 Fuel weight 6.96 lbs/gal (0.834 kg/l) Oil SAE 30 API service classification SE/CD Oil consumption for 10 hours 0.15 lb (70 gm) Transmission and hydraulic lubricant SAE 80W90 GL-4 Front axle lubricant SAE 80W90 GL-4

ENGINE: Make S+L+H Diesel Type six cylinder vertical with turbocharger Serial No. 001820 Crankshaft lengthwise Rated Engine speed 2500 Bore and stroke 4.134" x 4.547" (105 mm x 115.5 mm) Compression ratio 16 to 1 Displacement 366 cu in (6000 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 vertical Cooling medium temperature control thermostat

CHASSIS: Type front wheel assist Serial No. H 6135 VI*1168* Tread width rear 68.9" (1750 mm) to 88.6" (2250 mm) front 70.9" (1800 mm) to 81.1" (2060 mm) Wheel base 108.3" (2750 mm) Hydraulic control system direct engine drive Transmission selective gear fixed ratio with partial (2) range operator controlled powershift Nominal travel speeds mph (km/h) first 0.12 (0.19) second 0.14 (0.23) third 0.16 (0.25) fourth 0.18 (0.29) fifth 0.21 (0.33) sixth 0.24 (0.38) seventh 0.26 (0.42) eighth 0.30 (0.49) ninth 0.34 (0.55) tenth 0.37 (0.59) eleventh 0.40 (0.64) twelfth 0.42 (0.68) thirteenth 0.44 (0.71) fourteenth 0.47 (0.76) fifteenth 0.52 (0.83) sixteenth 0.55 (0.88) seventeenth 0.61 (0.98) eighteenth 0.71 (1.15) nineteenth 0.78 (1.26) twentieth 0.91 (1.47) twenty-first 1.03 (1.66) twenty-second 1.23 (1.98) twenty-third 1.26 (2.03) twenty-fourth 1.32 (2.13) twenty-fifth 1.47 (2.37) twenty-sixth 1.54 (2.48) twenty-seventh 1.62 (2.61) twenty-eighth 1.90 (3.05) twenty-ninth 2.11 (3.40) thirtieth 2.47 (3.97) thirty-first 2.71 (4.36) thirty-second 3.16 (5.08) thirty-third 3.56 (5.73) thirty-fourth 4.16 (6.69) thirty-fifth 4.57 (7.36) thirty-sixth 5.34 (8.59) thirty-seventh 5.79 (9.31) thirty-eighth 6.75 (10.87) thirty-ninth 7.46 (12.01) fortieth 8.71 (14.01) forty-first 9.70 (15.61) forty-second 11.32 (18.22) forty-third 12.44 (20.02) forty-fourth 14.51 (23.35) forty-fifth 16.37 (26.34) forty-sixth 19.09 (30.73) forty-seventh 21.01 (33.81) forty-eighth 24.51 (39.44)

TIRES, BALLAST AND WEIGHT

		With Ballast	Without Ballast
Rear Tires	- No., size, ply & psi (kPa)	Two 20.8R38; **,23 (160)	Two 20.8R38; **,23 (160)
Ballast	- Liquid (total)	None	None
	- Cast Iron (total)	660 lb (300 kg)	None
Front Tires	- No., size, ply & psi (kPa)	Two 16.9R30; **,23 (160)	Two 16.9R30; **,23 (160)
Ballast	- Liquid (total)	None	None
	- Cast Iron (total)	880 lb (400 kg)	None
Height of Drawbar		26.4 in (670 mm)	26.6 in (675 mm)
Static Weight with Operator - Rear		6845 lb (3105 kg)	6580 lb (2985 kg)
	- Front	6855 lb (3110 kg)	5580 lb (2530 kg)
	- Total	13700 lb (6215 kg)	12160 lb (5515 kg)

TRACTOR SOUND LEVEL WITH CAB**dB(A)**

Maximum sound level	--
Bystander in 48th (6F Hi) gear	85.7

CENTER OF GRAVITY

Horizontal distance forward from centerline of rear wheels	49.7 in (1262 mm)
Vertical distance above roadway	40.2 in (1021 mm)
Horizontal distance from center of rear wheel tread	0 in (0 mm) to the left/right

TURNING ON A CONCRETE SURFACE

Turning radius - with brake applied right 203" (5.16 m) left 206" (5.22 m)	
- without brake right 224" (5.70 m) left 227" (5.77 m)	
Turning space radius - with brake applied right 213" (5.42 m) left 216" (5.48 m)	
- without brake right 232" (5.90 m) left 235" (5.97 m)	

THREE POINT HITCH PERFORMANCE (OECD Static Test)

CATEGORY: II

Quick Attach: None

Maximum Force Exerted Through Whole Range:	9925 lbs (44.14 kN) (at the frame)
	9040 lbs (40.22 kN) (at lower link ends)
i) Opening pressure of relief valve:	NA
Sustained pressure with relief valve open:	3020 psi (208 bar)
ii) Pump delivery rate at minimum pressure:	16.1 GPM (61.0 l/min)
iii) Pump delivery rate at maximum	
hydraulic power:	13.2 GPM (50.0 l/min)
Delivery pressure:	2685 psi (185 bar)
Power:	20.7 HP (15.4 kW)

reverse 0.13(0.21), 0.15(0.24), 0.17(0.27), 0.19(0.31), 0.22(0.35), 0.25(0.40), 0.27(0.44), 0.32(0.52), 0.36(0.58), 0.39(0.62), 0.42(0.68), 0.45(0.72), 0.47(0.75), 0.50(0.80), 0.54(0.87), 0.58(0.93), 0.65(1.04), 0.75(1.21), 0.83(1.33), 0.96(1.55), 1.09(1.75), 1.27(2.04), 1.33(2.14), 1.40(2.25), 1.55(2.50), 1.63(2.62), 1.72(2.76), 2.00(3.22), 2.23(3.59), 2.60(4.19), 2.86(4.60), 3.56(5.73), 3.77(6.06), 4.39(7.07), 4.83(7.78), 5.64(9.07), 6.11(9.84), 7.13(11.48), 7.89(12.69), 9.20(14.80), 10.25(16.49), 11.96(19.24), 13.14(21.15), 15.32(24.67), 17.29(27.83), 20.18(32.47), 22.20(35.72), 25.89(41.67) **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 2229 engine rpm or 1000 rpm at 2421 engine rpm **Unladen tractor mass** 11995 lb (5440 kg)

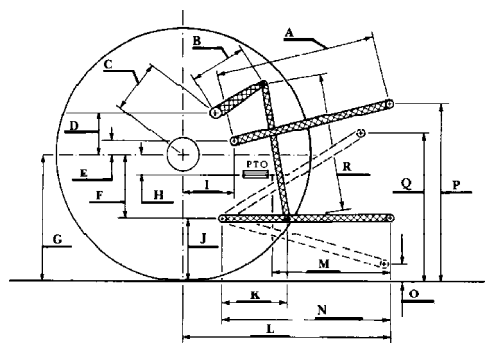
REPAIRS AND ADJUSTMENTS: No repairs or adjustments

REMARKS: All test results were determined from observed data obtained in accordance with official OECD test procedures. This tractor did not meet manufacturer's claim of 13669 lb (6200 kg) lift capacity. 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. **1338/2**, Nebraska Summary 338, October 24, 2000.

Brent T. Sampson
Test Engineer

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

HITCH DIMENSIONS AS TESTED NO LOAD

	inch	mm
A	28.7	729
B	11.0	280
C	16.7	424
D	15.8	402
E	11.1	282
F	9.1	230
G	33.7	855
H	1.0	25
I	13.2	335
J	24.6	625
K	16.9	430
L	41.7	1060
M	23.0	585
N	33.1	840
O	7.9	200
P	48.6	1235
Q	36.6	930
R	32.5	825

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