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SUMMARY OF OECD TEST 1791–NEBRASKA SUMMARY 284
NEW HOLLAND 9882 QUADRASYNC DIESEL
12 SPEED

DRAWBAR PERFORMANCE (UNBALLASTED)
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 5th(M1) Gear									
337.8 *(251.9)*	24670 *(109.51)*	5.15 *(8.28)*	2098	4.7	0.445 *(0.271)*	16.04 *(3.16)*	178 *(81)*	48 *(9)*	28.85 *(97.70)*
75% of Pull at Maximum Power 5th(M1) Gear									
271.9 *(202.8)*	18460 *(82.12)*	5.52 *(8.89)*	2226	3.6	0.487 *(0.296)*	14.67 *(2.89)*	178 *(81)*	48 *(9)*	28.83 *(97.62)*
50% of Pull at Maximum Power 5th(M1) Gear									
185.4 *(138.3)*	12300 *(54.72)*	5.65 *(9.10)*	2250	2.3	0.569 *(0.346)*	12.54 *(2.47)*	178 *(81)*	48 *(9)*	28.83 *(97.62)*
75% of Pull at Reduced Engine Speed 6th(M2) Gear									
270.8 *(201.9)*	18440 *(82.02)*	5.51 *(8.86)*	1894	3.3	0.434 *(0.264)*	16.45 *(3.24)*	178 *(81)*	48 *(9)*	28.83 *(97.62)*
50% of Pull at Reduced Engine Speed 6th(M2) Gear									
185.9 *(138.6)*	12320 *(54.79)*	5.66 *(9.11)*	1921	2.0	0.495 *(0.301)*	14.42 *(2.84)*	176 *(80)*	48 *(9)*	28.83 *(97.62)*

MAXIMUM POWER IN SELECTED GEARS

3rd(L3) Gear									
316.2 *(235.8)*	34195 *(152.10)*	3.47 *(5.58)*	2044	12.3	0.477 *(0.290)*	14.97 *(2.95)*	180 *(82)*	48 *(9)*	28.84 *(97.66)*
4th(L4) Gear									
329.8 *(245.9)*	31440 *(139.85)*	3.93 *(6.33)*	1901	8.0	0.441 *(0.268)*	16.19 *(3.19)*	178 *(81)*	48 *(9)*	28.84 *(97.66)*
5th(M1) Gear									
337.8 *(251.9)*	27505 *(122.36)*	4.61 *(7.41)*	1899	5.7	0.429 *(0.261)*	16.65 *(3.28)*	178 *(81)*	48 *(9)*	28.85 *(97.70)*
6th(M2) Gear									
342.4 *(255.3)*	23510 *(104.58)*	5.46 *(8.79)*	1899	4.4	0.425 *(0.258)*	16.80 *(3.31)*	178 *(81)*	48 *(9)*	28.85 *(97.70)*
7th(M3) Gear									
346.4 *(258.3)*	20140 *(89.58)*	6.45 *(10.38)*	1902	3.3	0.414 *(0.252)*	17.21 *(3.39)*	178 *(81)*	46 *(8)*	28.86 *(97.74)*
8th(M4) Gear									
338.5 *(252.4)*	16840 *(74.92)*	7.54 *(12.13)*	1899	2.7	0.432 *(0.263)*	16.50 *(3.25)*	176 *(80)*	45 *(7)*	28.89 *(97.84)*

TRACTOR SOUND LEVEL WITH CAB	dB(A)
At 75% load in 5th(M1) gear	78.0
Bystander	--

Location of Test: Prairie Agricultural Machinery Institute (PAMI), Portage La Prairie, Manitoba, Canada R1N 3C5

Dates of Test: October, 1996

Manufacturer: New Holland Canada Ltd. Versatile Farm Equipment Operations, Box 7300, 1260 Clarence Ave., Winnipeg, Manitoba, Canada R3C 4E8

FUEL and OIL: Fuel No. 2 Diesel **Specific gravity converted to 60°/60°F *(15°/15°C)*** 0.8570 **Fuel weight** 7.135 lbs/gal *(0.855 kg/l)* **Oil SAE** 15W40 **API service classification** CF-4 **Transmission and hydraulic lubricant** Esso Hydraul 56 fluid **Final drive lubricant** SAE 80W90 gear oil

ENGINE: Make Cummins Diesel **Type** six cylinder vertical with turbocharger and intercooler **Serial No.** 11812387 **Crankshaft** lengthwise **Rated engine speed** 2100 **Bore and stroke** 5.50" x 6.00"*(139.7 mm x 152.3 mm)* **Compression ratio** 16.5 to 1 **Displacement** 855 cu in *(14039 ml)* **Starting system** 12 volt **Lubrication** pressure **Air cleaner** two paper elements and aspirator **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 Four wheel drive with duals **Serial No.** D104109 **Tread width** rear 80.0"*(2032 mm)* and 150.6"*(3825 mm)* front 80.0"*(2032 mm)* and 150.6"*(3825 mm)* **Wheelbase** 133.0"*(3380 mm)* **Hydraulic control system** direct engine drive **Transmission** selective gear fixed ratio **Nominal travel speeds mph *(km/h)*** first 3.01 *(4.85)* second 3.53 *(5.68)* third 4.11 *(6.62)* fourth 4.79 *(7.70)* fifth 5.47 *(8.80)* sixth 6.40 (*10.30)* seventh 7.46 *(12.01)* eighth 8.69 *(13.98)* ninth 11.34 *(18.24)* tenth 13.25 *(21.33)* eleventh 15.46 *(24.88)* twelfth 18.00 *(28.96)* reverse 3.91 *(6.29)*, 4.57 *(7.35)*, 5.33 *(8.57)*, 6.20 *(9.98)* **Clutch** multiple wet disc hydraulically actuated by foot pedal **Brakes** caliper disc hydraulically operated by foot pedal **Steering** hydrostatic and articulated **Power take-off** None **Unladen tractor mass** 31670 lb *(14365 kg)*

DRAWBAR PERFORMANCE (BALLASTED)
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 5th(M1) Gear									
337.3	24265	5.21	2103	3.8	0.447	15.94	178	46	28.56
(251.5)	*(107.93)*	*(8.39)*			*(0.272)*	*(3.14)*	*(81)*	*(8)*	*(96.72)*
75% of Pull at Maximum Power 5th(M1) Gear									
270.9	18205	5.58	2224	2.6	0.488	14.62	176	45	28.56
(202.0)	*(80.98)*	*(8.98)*			*(0.297)*	*(2.88)*	*(80)*	*(7)*	*(96.72)*
50% of Pull at Maximum Power 5th(M1) Gear									
184.5	12135	5.70	2251	1.7	0.574	12.44	176	45	28.56
(137.6)	*(53.98)*	*(9.18)*			*(0.349)*	*(2.45)*	*(80)*	*(7)*	*(96.72)*
75% of Pull at Reduced Engine Speed 6th(M2) Gear									
270.8	18190	5.58	1902	2.6	0.432	16.50	176	45	28.56
(201.9)	*(80.92)*	*(8.98)*			*(0.263)*	*(3.25)*	*(80)*	*(7)*	*(96.72)*
50% of Pull at Reduced Engine Speed 6th(M2) Gear									
185.3	12130	5.73	1933	1.7	0.500	14.26	176	45	28.56
(138.2)	*(53.97)*	*(9.22)*			*(0.304)*	*(2.81)*	*(80)*	*(7)*	*(96.72)*
MAXIMUM POWER IN SELECTED GEARS									
1st(L1) Gear									
297.3	43765	2.55	2113	15.0	0.506	14.11	178	46	28.56
(221.7)	*(194.67)*	*(4.10)*			*(0.308)*	*(2.78)*	*(81)*	*(8)*	*(96.72)*
2nd(L2) Gear									
320.2	42475	2.83	1902	10.6	0.452	15.79	178	46	28.56
(238.8)	*(188.93)*	*(4.55)*			*(0.275)*	*(3.11)*	*(81)*	*(8)*	*(96.72)*
3rd(L3) Gear									
332.6	36365	3.43	1901	6.9	0.432	16.50	178	46	28.58
(248.0)	*(161.75)*	*(5.52)*			*(0.263)*	*(3.25)*	*(81)*	*(8)*	*(96.80)*
4th(L4) Gear									
336.5	31090	4.06	1899	5.3	0.427	16.70	178	46	28.58
(250.9)	*(138.30)*	*(6.53)*			*(0.260)*	*(3.29)*	*(81)*	*(8)*	*(96.80)*
5th(M1) Gear									
341.7	27385	4.68	1900	4.4	0.422	16.90	178	46	28.60
(254.8)	*(121.82)*	*(7.53)*			*(0.257)*	*(3.33)*	*(81)*	*(8)*	*(96.84)*
6th(M2) Gear									
342.0	23245	5.52	1899	3.6	0.422	16.90	178	46	28.60
(255.0)	*(103.39)*	*(8.88)*			*(0.257)*	*(3.33)*	*(81)*	*(8)*	*(96.84)*
7th(M3) Gear									
340.2	19665	6.49	1900	2.9	0.422	16.90	178	46	28.60
(253.7)	*(87.47)*	*(10.44)*			*(0.257)*	*(3.33)*	*(81)*	*(8)*	*(96.84)*
8th(M4) Gear									
335.0	16530	7.60	1903	2.6	0.429	16.65	178	46	28.64
(249.8)	*(73.53)*	*(12.23)*			*(0.261)*	*(3.28)*	*(81)*	*(8)*	*(96.98)*

TIRES, BALLAST AND WEIGHT	**With Ballast**	**Without Ballast**
Rear tires - No., size, ply & psi *(kPa)*	Four 710/70R38;**;10*(69)*	Four 710/70R38;**;8*(55)*
Ballast - Liquid(total)	2965 lb *(1345 kg)*	None
- Cast iron(total)	3995 lb *(1813 kg)*	None
Front Tires - No., size, ply, & psi *(kPa)*	Four 710/70R38;**;10*(69)*	Four 710/70R38;**;8*(55)*
Ballast - Liquid(total)	2595 lb *(1177 kg)*	None
- Cast iron(total)	1260 lb *(572 kg)*	None
Height of Drawbar	21.1 in *(535 mm)*	21.8 in *(553 mm)*
Static Weight with operator - Rear	18850 lb *(8551 kg)*	11890 lb *(5393 kg)*
- Front	23800 lb *(10796 kg)*	19945 lb *(9047 kg)*
- Total	42650 lb *(19347 kg)*	31835 lb *(14440 kg)*

REPAIRS AND ADJUSTMENTS: No repairs or adjustments

NOTE: This tractor was not equipped with a 3 point hitch when tested. The 3 point hitch performance data shown on this report is from a test series done on the New Holland 9282 Diesel.

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 50 gal/min *(189.3 l/min)* remote hydraulic flow. The performance figures on this summary were taken from a test conducted under the OECD Code II test code procedure.

We, the undersigned, certify that this is a true summary of data from OECD Report No. **1791**, Nebraska Summary 284, June 17, 1999.

Leonard L. Bashford
Director

M. F. Kocher
R. D. Grisso
G. J. Hoffman
Board of Tractor Test Engineers

SUMMARY OF OECD TEST 1791 – NEBRASKA SUMMARY 284
NEW HOLLAND 9882 QUADRASYNC DIESEL
12 SPEED

PERFORMANCE AT TRANSMISSION OUTPUT SHAFT

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					
369.9 *(275.8)*	2100	21.19 *(80.21)*	0.409 *(0.249)*	17.46 *(3.44)*	
Maximum Power (2 hours)					
377.2 *(281.3)*	1900	20.29 *(76.81)*	0.384 *(0.233)*	18.59 *(3.66)*	
VARYING POWER AND FUEL CONSUMPTION					
369.9 *(275.8)*	2100	21.19 *(80.21)*	0.409 *(0.249)*	17.46 *(3.44)*	Air temperature
331.6 *(247.3)*	2215	20.29 *(76.79)*	0.436 *(0.265)*	16.35 *(3.22)*	72°F *(22°C)*
253.7 *(189.2)*	2261	16.86 *(63.81)*	0.473 *(0.288)*	15.05 *(2.97)*	Relative humidity
170.8 *(127.4)*	2283	13.34 *(50.49)*	0.558 *(0.339)*	12.81 *(2.52)*	49%
86.5 *(64.5)*	2309	9.80 *(37.09)*	0.809 *(0.492)*	8.82 *(1.74)*	Barometer
16.4 *(12.2)*	2330	6.23 *(23.57)*	3.268 *(1.711)*	2.54 *(0.50)*	29.12" Hg *(98.61 kPa)*

Maximum Torque - 1329 lb.-ft. *(1802 Nm)* at 1233 rpm
Maximum Torque Rise - 43.7%
Torque rise at 1700 engine rpm - 24%

THREE POINT HITCH PERFORMANCE (OECD Static Test)

CATEGORY: IVN
Quick Attach: None

Maximum Force Exerted Through Whole Range:	15285 lbs	*(68.0 kN)*
i) Opening pressure of relief valve:	NA	
Sustained pressure of the open relief valve:	2900 psi	*(200 bar)*
ii) Pump delivery rate at minimum pressure:	48.6 GPM	*(184.1 l/min)*
iii) Pump delivery rate at maximum hydraulic power:	46.7 GPM	*(176.8 l/min)*
Delivery pressure:	2350 psi	*(162 bar)*
Power:	64.0 HP	*(47.7 kW)*

THREE POINT HITCH PERFORMANCE (SAE Static Test)

Observed Maximum Pressure psi *(bar)*	2800 *(193)*
Location	lift cylinder
Hydraulic oil Temperature °F *(°C)*	150 *(65)*
Location	hydraulic sump
Category	IVN
Quick Attach	None

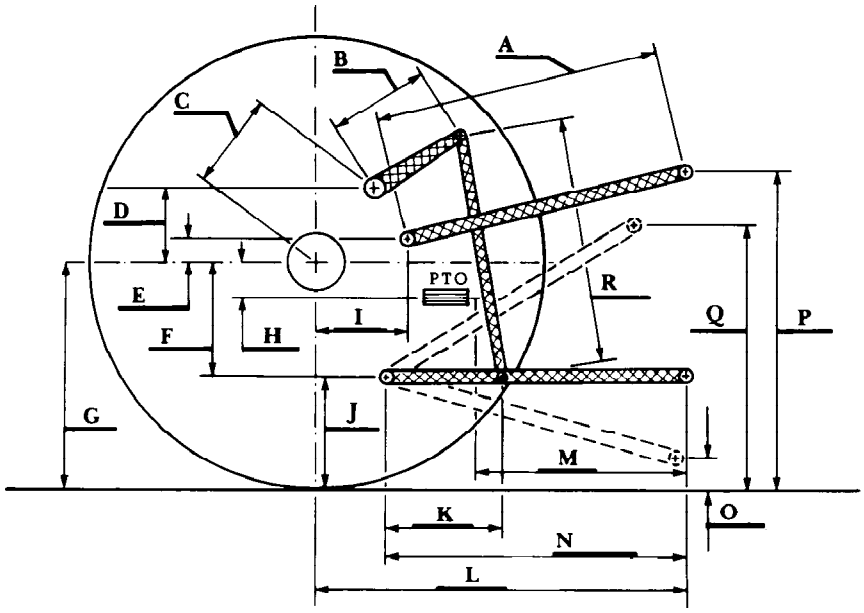
System Pressure - 2600 psi *(179 bar)*

Hitch point distance to ground level in. *(mm)*	8.0 *(203)*	19.4 *(492)*	27.2 *(692)*	35.1 *(892)*	44.1 *(1120)*
Lift force on frame lb.	25955	22535	20220	17905	13430
" " " " " *(kN)*	*(115.4)*	*(100.2)*	*(89.9)*	*(79.6)*	*(59.7)*

ASAE Test - System Pressure - 2800 psi(*193 bar*)

Hitch point distance to ground level in. *(mm)*	8.0 *(203)*	19.4 *(492)*	27.2 *(692)*	35.1 *(892)*	44.1 *(1120)*
Lift force on frame lb.	28025	24315	21820	19325	14465
" " " " " *(kN)*	*(124.7)*	*(108.2)*	*(97.1)*	*(86.0)*	*(64.4)*

HITCH DIMENSIONS AS TESTED NO LOAD



	inch	*mm*
A	27.8	*705*
B	18.6	*472*
C	27.0	*685*
D	19.0	*483*
E	13.4	*341*
F	10.4	*263*
G	33.7	*855*
H	1.7	*43*
I	25.3	*642*
J	23.3	*592*
K	18.0	*457*
L	53.4	*1356*
M	25.3	*718*
N	43.0	*1092*
O	9.1	*230*
P	50.3	*1277*
Q	41.3	*1050*
R	33.1	*842*

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