SUMMARY OF OECD TEST 1816—NEBRASKA SUMMARY 283
NEW HOLLAND 9682 QUADRASYNC 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-997 rpm)					
319.8 *(238.4)*	2100	18.86 *(71.41)*	0.415 *(0.252)*	16.98 *(3.34)*	
Standard Power Take-off Speed (997 rpm)					
319.8 *(238.4)*	2100	18.86 *(71.41)*	0.415 *(0.252)*	16.98 *(3.34)*	
Maximum Power (2 hours)					
337.5 *(251.7)*	1800	18.06 *(68.35)*	0.377 *(0.229)*	18.70 *(3.68)*	
VARYING POWER AND FUEL CONSUMPTION					
319.8 *(238.4)*	2098	18.86 *(71.41)*	0.415 *(0.252)*	16.98 *(3.34)*	Air temperature
286.2 *(213.4)*	2211	18.31 *(69.31)*	0.450 *(0.274)*	15.63 *(3.08)*	73°F *(23°C)*
218.6 *(163.0)*	2251	15.25 *(57.74)*	0.492 *(0.299)*	14.33 *(2.82)*	Relative humidity
146.2 *(109.0)*	2261	12.69 *(48.04)*	0.611 *(0.371)*	11.54 *(2.27)*	72%
73.9 *(55.1)*	2281	9.05 *(34.26)*	0.861 *(0.524)*	8.18 *(1.61)*	Barometer
3.0 *(2.2)*	2312	5.88 *(22.25)*	14.011 *(8.523)*	0.50 *(0.10)*	29.3" Hg *(99.19 kPa)*

Maximum Torque - 1159 lb.-ft. *(1572 Nm)* at 1311 rpm
Maximum Torque Rise - 45.0%
Torque rise at 1700 engine rpm - 30%

DRAWBAR PERFORMANCE
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 4th (L4) Gear									
284.7 *(212.3)*	22940 *(102.04)*	4.65 *(7.49)*	2100	2.1	0.462 *(0.281)*	15.25 *(3.00)*	178 *(81)*	41 *(5)*	28.9 *(98.0)*
75% of Pull at Maximum Power 4th (L4) Gear									
229.2 *(170.9)*	17245 *(76.70)*	4.98 *(8.02)*	2232	1.5	0.527 *(0.320)*	13.38 *(2.63)*	176 *(80)*	43 *(6)*	29.0 *(98.3)*
50% of Pull at Maximum Power 4th (L4) Gear									
154.6 *(115.3)*	11475 *(51.05)*	5.05 *(8.13)*	2251	0.9	0.628 *(0.382)*	11.22 *(2.21)*	172 *(78)*	43 *(6)*	29.0 *(98.3)*
75% of Pull at Reduced Engine Speed 5th (M1) Gear									
230.0 *(171.5)*	17195 *(76.49)*	5.02 *(8.07)*	1968	1.6	0.469 *(0.285)*	15.02 *(2.96)*	174 *(79)*	43 *(6)*	29.0 *(98.3)*
50% of Pull at Reduced Engine Speed 5th (M1) Gear									
154.8 *(115.4)*	11445 *(50.90)*	5.07 *(8.16)*	1979	1.0	0.538 *(0.327)*	13.10 *(2.58)*	172 *(78)*	43 *(6)*	29.1 *(98.4)*

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

Dates of Test: October, 1998

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

FUEL and OIL: Fuel No. 2 Diesel **Specific gravity converted to 60°/60° F *(15°/15°C)*** 0.845 **Fuel weight** 7.034 lbs/gal *(0.843 kg/l)* **Oil SAE** 15W-40 **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.** 11899160 **Crankshaft** lengthwise **Rated engine speed** 2100 **Bore and stroke** 5.50" x 6.00" *(139.7 mm x 152.4 mm)* **Compression ratio** 18.5 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.** D107740 **Tread width** rear 72.0" *(1829 mm)* and 128.9" *(3275 mm)* front 72.0" *(1829 mm)* and 128.9" *(3275 mm)* **Wheel base** 133.0"*(3380 mm)* **Hydraulic control system** direct engine drive **Transmission** selective gear fixed ratio **Nominal travel speeds mph *(km/h)*** first 2.96 *(4.77)* second 3.47 *(5.58)* third 4.04 *(6.51)* fourth 4.71 *(7.58)* fifth 5.38 *(8.66)* sixth 6.30 *(10.13)* seventh 7.34 *(11.81)* eighth 8.55 *(13.75)* ninth 11.15 *(17.95)* tenth 13.04 *(20.98)* eleventh 15.21 *(24.48)* twelfth 17.70 *(28.49)* reverse 3.84 *(6.18)*, 4.49 *(7.23)*, 5.24 *(8.43)*, 6.10 *(9.82)* **Clutch** multiple wet disc hydraulically operated by foot pedal **Brakes** caliper disc hydraulically operated by foot pedal **Steering** hydrostatic and articulated **Power take-off** 1000 rpm at 2106 engine rpm **Unladen tractor mass** 31865 lb *(14453 kg)*

REPAIRS AND ADJUSTMENTS: No repairs or adjustments

DRAWBAR PERFORMANCE
MAXIMUM POWER IN SELECTED GEARS

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)*
				2nd (L2) Gear					
272.6 *(203.3)*	34630 *(154.05)*	2.95 *(4.75)*	1974	10.4	0.485 *(0.295)*	14.53 *(2.86)*	176 *(80)*	43 *(6)*	29.0 *(98.3)*
				3rd (L3) Gear					
291.9 *(217.7)*	33360 *(148.40)*	3.28 *(5.28)*	1801	6.5	0.434 *(0.264)*	16.24 *(3.20)*	174 *(79)*	41 *(5)*	29.0 *(98.2)*
				4th (L4) Gear					
296.8 *(221.3)*	28380 *(126.24)*	3.92 *(6.31)*	1800	3.8	0.433 *(0.263)*	16.29 *(3.21)*	176 *(80)*	41 *(5)*	29.0 *(98.1)*
				5th (M1) Gear					
301.3 *(224.7)*	24845 *(110.51)*	4.55 *(7.32)*	1804	2.7	0.420 *(0.255)*	16.80 *(3.31)*	176 *(80)*	41 *(5)*	29.0 *(98.1)*
				6th (M2) Gear					
302.9 *(225.9)*	21280 *(94.66)*	5.34 *(8.59)*	1800	2.1	0.415 *(0.252)*	16.98 *(3.34)*	176 *(80)*	41 *(5)*	28.9 *(98.0)*
				7th (M3) Gear					
302.3 *(225.4)*	18115 *(80.59)*	6.26 *(10.07)*	1801	1.7	0.413 *(0.251)*	17.06 *(3.36)*	176 *(80)*	41 *(5)*	28.9 *(98.0)*
				8th (M4) Gear					
299.3 *(223.2)*	15390 *(68.45)*	7.29 *(11.74)*	1800	1.4	0.415 *(0.252)*	16.98 *(3.34)*	176 *(80)*	39 *(4)*	28.9 *(97.9)*

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)* hydraulic flow. The pull in 2nd (L2) gear was limited do to tire hop. The performance results on this summary were taken from OECD tests conducted under the Code II Test Code procedure.

We, the undersigned, certify that this is a true summary of data from OECD Report No. **1816**, Nebraska Summary 283, July 12, 1999.

Brent T. Sampson
Test Engineer

L.L. Bashford
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R.D. Grisso, Jr
Board of Tractor Test Engineers

TRACTOR SOUND LEVEL WITH CAB	**dB(A)**
At 75% Load in 5th(M1) Gear	78.0
Bystander	--

TIRES AND WEIGHT

		Tested Without Ballast
Rear Tires	No., size, ply & psi *(kPa)*	Four 20.8R42;**; 9 *(60)*
Front Tires	No., size, ply & psi *(kPa)*	Four 20.8R42;**; 10 *(71)*
Height of Drawbar		21.3 in *(541 mm)*
Static Weight with operator	Rear	11915 lb *(5405 kg)*
	Front	20115 lb *(9123 kg)*
	Total	32030 lb *(14528 kg)*

THREE POINT HITCH PERFORMANCE (OECD Static Test)

CATEGORY: IVN
Quick Attach: none

Maximum Force Exerted Through Whole Range:	15285 lb	*(68.0 kN)*
i) Opening pressure of relief valve:	NA	
Sustained pressure of the open relief valve:	2875 psi	*(198 bar)*
ii) Pump delivery rate at minimum pressure:	47.2 GPM	*(178.8 l/min)*
iii) Pump delivery rate at maximum hydraulic power:	45.1 GPM	*(170.7 l/min)*
Delivery pressure:	2305 psi	*(159 bar)*
Power:	60.6 HP	*(45.2 kW)*

THREE POINT HITCH PERFORMANCE (SAE Static Test)

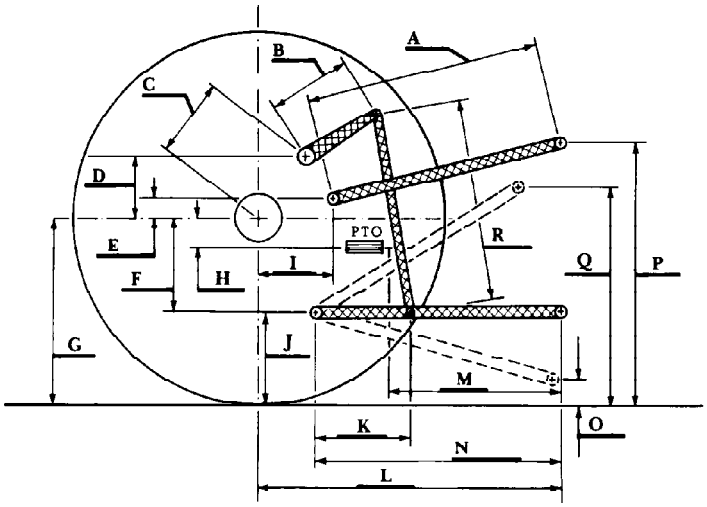
Observed Maximum Pressure psi *(bar)*	2800 *(193)*
Location	lift cylinder
Hydraulic oil Temperature °F *(°C)*	150 *(65)*
Location	Hydraulic sump
Category	IVN
Quick Attach	None

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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