

# SUMMARY OF OECD TEST 2346 — NEBRASKA SUMMARY 574

## NEW HOLLAND TN95DA 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
<b>MAXIMUM POWER AND FUEL CONSUMPTION</b>					
<b>Rated Engine Speed (PTO speed—563 rpm)</b>					
83.4 (62.2)	2293	5.20 (19.68)	0.436 (0.265)	16.04 (3.16)	
<b>Maximum Power (2 hours)</b>					
83.7 (62.4)	2248	5.14 (19.44)	0.429 (0.261)	16.29 (3.21)	
<b>Standard Power Take-off speed (540 rpm)</b>					
83.1 (62.0)	2199	5.05 (19.13)	0.425 (0.259)	16.45 (3.24)	
<b>VARYING POWER AND FUEL CONSUMPTION</b>					
83.4 (62.2)	2293	5.20 (19.68)	0.436 (0.265)	16.04 (3.16)	Air temperature
74.4 (55.5)	2408	5.01 (18.95)	0.470 (0.286)	14.87 (2.93)	66°F (19°C)
56.2 (41.9)	2429	4.11 (15.54)	0.511 (0.311)	13.69 (2.70)	Relative humidity
37.8 (28.2)	2441	3.40 (12.89)	0.629 (0.383)	11.12 (2.19)	68%
19.2 (14.3)	2461	2.62 (9.90)	0.954 (0.580)	7.33 (1.44)	Barometer
--	2494	1.81 (6.84)	--	--	30.0" Hg (101.7 kPa)
Maximum torque -271.3 lb.-ft. (367.9 Nm) at 1399 rpm Maximum torque rise -42.0% Torque rise at 1800 engine rpm -25%					

**Location of tests:** Alma Mater Studiorum, University Di Bologna, Via Gandolfi, 19-40057, Cadriano, Bologna, Italy

**Dates of tests:** September to October, 2005

**Manufacturer:** New Holland Italia S.p.A. Via Leona XII-Zona Industriale Zipa 60035 Jesi-Italy

**FUEL and OIL:** Fuel No. 2 Diesel **Specific gravity converted to 60°/60°F (15°/15°C)** 0.840 **Fuel weight** 6.99 lbs/gal (0.838 kg/l) **Oil** SAE 15W40 **API service classification** CI-4 **Oil consumption for 10 hours** 0.04 lb (16 gm) **Transmission and hydraulic lubricant** Ambra Multi G 10W30 **Front axle lubricant** Ambra Multi G

**ENGINE:** Make CNH Diesel **Type** four cylinder vertical with turbocharger **Serial No.** 873941 **Crankshaft** lengthwise **Rated engine speed** 2300 **Bore and stroke** 4.094" x 5.197" (104.0 mm x 132.0 mm) **Compression ratio** 17.5 to 1 **Displacement** 273 cu in (4485 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** underhood **Exhaust** vertical **Cooling medium temperature control** thermostat and variable speed fan

**CHASSIS:** **Type** front wheel assist **Serial No.** HJJE028170 **Tread width** rear 48.5" (1232 mm) to 76.7" (1949 mm) front: 48.7" (1236 mm) to 76.6" (1945 mm) **Wheel base** 86.0" (2185 mm) **Hydraulic control system** direct engine drive **Transmission** selective gear fixed ratio **Nominal travel speeds mph (km/h)** first 0.49 (0.79) second 0.73 (1.18) third 1.08 (1.73) fourth 1.59 (2.56) fifth 2.52 (4.06) sixth 3.76 (6.05) seventh 5.52 (8.89) eighth 7.28 (11.72) ninth 8.19 (13.18) tenth 10.85 (17.47) eleventh 15.96 (25.68) twelfth 23.64 (38.04) reverse 0.47 (0.76), 0.71 (1.14), 1.04 (1.68), 1.54 (2.48), 2.44 (3.93), 3.64 (5.86), 5.36 (8.62), 7.05 (11.35), 7.94 (12.77), 10.51 (16.92), 15.46 (24.88), 22.90 (36.85) **Clutch** dual dry disc operated by foot pedal **Brakes** wet disc hydraulically operated by two foot pedals which can be locked together **Steering** hydrostatic **Power take-off** 540 rpm at 2196 engine rpm or 1000 rpm at 2260 engine rpm **Unladen tractor mass** 6835 lb (3100 kg)

**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 (8)	Barom. inch Hg (kPa)
<b>75% of Pull at Maximum Power—Five Hours 8th (1 Hi) Gear</b>									
64.0 (47.7)	3285 (14.62)	7.30 (11.75)	2387	4.3	0.450 (0.274)	15.53 (3.06)	187 (86)	46 (8)	30.0 (101.6)
<b>MAXIMUM POWER IN SELECTED GEARS</b>									
6th (2M Hi) Gear									
62.0 (46.2)	6820 (30.33)	3.41 (5.49)	2425	15.0	0.497 (0.302)	14.07 (2.77)	181 (83)	48 (9)	29.9 (101.3)
7th (3M Hi) Gear									
70.5 (52.6)	4960 (22.07)	5.33 (8.58)	2388	7.9	0.492 (0.299)	14.21 (2.80)	181 (83)	46 (8)	29.9 (101.3)
8th (1 Hi) Gear									
74.0 (55.2)	4075 (18.13)	6.81 (10.95)	2252	5.3	0.480 (0.292)	14.57 (2.87)	183 (84)	46 (8)	29.9 (101.3)
9th (4 M Hi) Gear									
71.6 (53.4)	3470 (15.43)	7.74 (12.46)	2261	4.4	0.497 (0.302)	14.07 (2.77)	187 (86)	50 (10)	30.2 (102.4)
10th (2 Hi) Gear									
70.4 (52.5)	2525 (11.24)	10.45 (16.81)	2268	3.2	0.507 (0.309)	13.79 (2.72)	181 (83)	45 (7)	29.9 (101.3)

**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 the manufacturer's remote hydraulic flow claim of 15.0 GPM (56.9 lpm). 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. **2346**, Nebraska Summary 574, July 10, 2007.

Roger M. Hoy  
 Director

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 Board of Tractor Test Engineers

**TIRES, BALLAST AND WEIGHT**

	With Ballast	Without Ballast
<b>Rear Tires</b>	-No., size, ply & psi (kPa)	Two 16.9R30; **,20 (135)
<b>Ballast</b>	-Liquid (total)	None
	-Cast Iron (total)	440 lb (200 kg)
<b>Front Tires</b>	-No., size, ply & psi (kPa)	Two 11.2R24; **,17 (120)
<b>Ballast</b>	-Liquid (total)	None
	-Cast Iron (total)	640 lb (290 kg)
<b>Height of Drawbar</b>		20.1 in (510 mm)
<b>Static Weight with Operator</b>	- Rear	4610 lb (2090 kg)
	- Front	3470 lb (1575 kg)
	- Total	8080 lb (3665 kg)

**TRACTOR SOUND LEVEL WITH CAB**

**dB(A)**

At no load in 6th (3M Hi) gear	79.2
Bystander in 12th (4 Hi) gear	83.4

**TRACTOR SOUND LEVEL WITHOUT CAB**

**dB(A)**

At no load in 6th (3M Hi) gear	86.1
Bystander in 12th (4 Hi) gear	83.9

**CENTER OF GRAVITY - FWA**

Horizontal distance forward from centerline of rearwheels	33.3" (846 mm)
Vertical distance above roadway	36.8" (935 mm)
Horizontal distance from center of rearwheel tread	0.3" (7 mm) to the left

**TURNING ON A CONCRETE SURFACE (FWA)**

Turning radius—without brake right	151" (3.83 m)	left	151" (3.84 m)
Turning space radius—without brake right	156" (3.97 m)	left	157" (3.98 m)

**THREE POINT HITCH PERFORMANCE (OECD Static Test)**

CATEGORY: II

Quick Attach: None

Maximum force exerted through whole range:	4170 lbs (18.56 kN)
i) Sustained pressure with relief valve open:	2900 psi (200 bar)
ii) Pump delivery rate at minimum pressure:	13.5 GPM (51.2 l/min)
iii) Pump delivery rate at maximum	
hydraulic power:	11.6 GPM (43.9 l/min)
Delivery pressure:	2605 psi (180 bar)
Power:	17.6 hp (13.1 kW)

**THREE POINT HITCH PERFORMANCE (SAE Static Test)**

Observed maximum pressure psi. (bar)	2980 (205)
Location:	remote outlets
Hydraulic oil temperature: °F (°C)	113 (45)
Location:	hydraulic sump
Category:	II
Quick attach:	none

System pressure 2680 psi (185 Bar)

Hitch point distance to ground level in. (mm)	17.7 (449)	21.9 (555)	26.2 (665)	30.1 (764)	34.5 (877)	38.8 (985)
Lift force on frame lb	6135	6385	6160	5845	5505	5215
" " " " " " (kN)	(27.3)	(28.4)	(27.4)	(26.0)	(24.5)	(23.2)

**HITCH DIMENSIONS AS TESTED—NO LOAD**

	SAE TEST		OECD TEST	
	inch	mm	inch	mm
A	27.2	690	27.4	697
B	10.0	255	10.0	255
C	12.3	312	12.3	312
D	10.9	276	10.9	276
E	14.2	361	12.1	308
F	7.5	189	7.5	189
G	27.6	700	27.6	700
H	1.4	35	1.4	35
I	13.4	340	13.6	345
J	20.1	511	20.1	511
K	20.6	523	20.6	523
L	40.7	1035	40.7	1035
M	21.7	550	21.7	550
N	34.6	880	34.6	880
O	17.7	449	15.0	380
P	40.2	1021	44.1	1121
Q	38.8	985	40.0	1016
R	22.4	570	22.5	572

