NEBRASKA TRACTOR TEST 1939A CASE IH DX 60 DIESEL ALSO CASE IH FARMALL 60 DIESEL 12 SPEED

POWER TAKE-OFF PERFORMANCE

Power HP (kW)	Crank shaft speed rpm	Gal/hr (<i>l/h</i>)	lb/hp.hr (kg/kW.h)	Hp.hr/gal (kW.h/l)	Mean Atmospheric Conditions
	M	AXIMUM	POWER	AND FUE	L CONSUMPTION
		Rated	l Engine Sp	eed—(PTO sp	oeed—611 rpm)
51.57	2800	3.76	0.514	13.72	•
(38.46)		(14.23)	(0.313)	(2.70)	
				r Take-off Sp	eed(540 rpm)
51.80	2475	3.50	0.476	14.80	
(38.63)		(13.25)	(0.290)	(2.92)	
ARYIN	G POW	ER AND F	UEL CON	SUMPTION	1
51.57	2800	3.76	0.514	13.72	Air temperature
(38.46)		(14.23)	(0.313)	(2.70)	
45.27	2891	3.30	0.514	13.73	78°F(26°C)
(33.76)		(12.48)	(0.312)	(2.71)	
34.37	2923	2.66	0.546	12.91	Relative humidity
(25.63)		(10.08)	(0.332)	(2.54)	
23.06	2953	2.12	0.650	10.86	6%
(17.20)		(8.04)	(0.395)	(2.14)	
	2986	1.66	1.002	7.03	Barometer
11.66	4500		(0 (10)	(1.39)	
11.66 (8.70)	2300	(6.28)	(0.610)	. ,	
	3017	(6.28)	13.737	0.50	29.1"Hg (98.5 kPa)

Power increase at 2475 rpm - 0.4%

	Front Wheel Drive		
	Engaged	Disengaged	
TRACTOR SOUND LEVEL WITHOUT CAB	dB(A)	dB(A)	
At no load in 7th (M3) gear	90.2	90.2	
Bystander in 12th(H3) gear		81.7	

	Front Wheel Drive		
	Engaged Disengage		
TRACTOR SOUND LEVEL WITH CAB	dB(A)	dB(A)	
At no load in 7th (M3) gear	82.5	82.9	
Bystander in 12th(H3) gear		80.4	

TIRES AND WEIGHT

Rear Tires-No., size, ply & psi(kPa) Front Tires-No., size, ply & psi (kPa) Height of Drawbar Static Weight with operator-Rear

Tested Without Ballast

Two 14.9-28; 6:12 (85) Two 9.5-16; 6; 20 (135) 17.0 in (430 mm) 2450 lb (1111 kg) 1780 lb (807 kg) 4230 lb (1918 kg)

Location of tests: Nebraska Tractor Test Laboratory, University of Nebraska, Lincoln Nebraska 68583-0832

Dates of tests: September 23, 2008 to March 11,

Manufacturer: CNH America LLC, 700 State Srteet, Racine, Wi. 53404

FUEL, OIL and TIME: Fuel No. 2 Diesel Specific gravity converted to 60°/60° F (15°/15°C) 0.8416 **Fuel weight** 7.007 lbs/gal (0.840 kg/l) **Oil** SAE 15W40 API service classification CI-4 Transmission and hydraulic lubricant Case IH Hytran ultra fluid Front axle lubricant Case IH Hytran ultra fluid Total time engine was operated 25.5 hours

ENGINE: Make ISM Diesel Type four cylinder vertical with turbocharger Serial No. 56021 Crankshaft lengthwise Rated engine speed 2800 **Bore and stroke** 3.307" x 3.937" (84.0 mm x 100.0 mm) Compression ratio 22.5 to 1 Displacement 135 cu in (2216 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 horizontal Cooling medium temperature control one thermostat

ENGINE OPERATING PARAMETERS: Fuel rate: 25.7 - 29.1 lb/h (11.7 - 13.2 kg/h) High idle: 2975 - 3075 rpm **Turbo boost:** nominal 6.5 - 8.0 psi (45 - 55 kPa) not measured

CHASSIS: Type front wheel assist Serial No. Z7NCE1030 **Tread width** rear 52.8" (1341 mm) to 76.3" (1939 mm) front 55.9" (1419 mm) Wheelbase 74.8" (1900 mm) **Hydraulic control system** direct engine drive Transmission selective gear fixed ratio Nominal travel speeds mph (km/h) first 1.13 (1.81) second 1.52 (2.45) third 1.99 (3.21) fourth 2.55 (4.12) fifth 2.83 (4.56) sixth 3.84 (6.18) seventh 5.02 (8.09) eighth 6.45 (10.38) ninth 7.98 (12.84) tenth 10.80 (17.39) eleventh 14.14 (22.76) twelfth 18.15 (29.21) reverse 1.21 (1.95), 1.64 (2.64), 2.15 (3.46), 2.76 (4.44), 3.05 (4.91), 4.13 (6.65), 5.41 (8.70), 6.94 (11.17), 8.58 (13.81), 11.62 (18.71), 15.22 (24.49), 19.53 (31.43) Clutch single dry disc operated by foot pedal **Brakes** single wet disc operated by two foot pedals which can be locked together **Steering** hydrostatic Power take-off 540 rpm at 2475 engine rpm Unladen tractor mass 4055 lb (1839 kg)

HYDRAULIC PERFORMANCE

CATEGORY: I, II		
Quick Attach: None		
OECD Static test		
Maximum force exerted through whole range:	$4028 \mathrm{lbs}$	(17.9 kN) Category I
	$3254 \mathrm{lbs}$	(14.5 kN) Category II
i) Sustained pressure of the open relief valve:	2477 psi	(171 bar)
ii) Pump delivery rate at minimum pressure		
and rated engine speed:	10.9 GPM	(41.1 l/min)
iii) Pump delivery rate at maximum		
hydraulic power:	10.3 GPM	(38.8 l/min)
Delivery pressure:	1899 psi	(131 bar)
Power:	11.4 HP	(8.5 kW)

THREE POINT HITCH PERFORMANCE(SAE Static test)

Observed maximum pressure psi.(bar)	2520(174)
Location:	hydraulicmanifold
Hydraulic oil temperature: °F(°C)	145 (63)
Location:	pump inlet
Category:	II
Quick attach:	none

Category II

System pressure 2320 psi (160 Bar)

Hitch point distance to ground level in. (mm	7.3 (184)	14.4 (364)	21.3 (540)	28.3 (718)	35.3 (896)
Lift force on frame lb	4409	4558	4354	4073	3849
" " " " " (kN)	(19.6)	(20.3)	(19.4)	(18.1)	(17.1)

REPAIRS AND ADJUSTMENTS: No repairs or adjustments.

NOTE 1: The performance results on this report were obtained from tests carried out on the New Holland T2420 Diesel.

NOTE 2: Report reprinted, supplemental for Case IH Farmall 60 Diesel, May 2009.

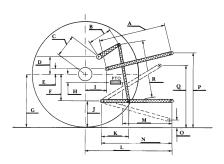
REMARKS: All test results were determined from observed data obtained in accordance with official OECD, SAE and Nebraska test procedures. This tractor did not meet the manufacturer's claim of 12.0 GPM (45.4 lpm) hydraulic flow. For the maximum power tests, the fuel temperature at the primary filter was maintained at 100°F (38°C).

We, the undersigned, certify that this is a true and correct report of official Tractor Test No. **1939A**, May 1, 2009.

Roger M. Hoy Director

> M.F. Kocher V.I. Adamchuk J.A. Smith Board of Tractor Test Engineers

	Category I		Category II	
	inch	mm	inch	mm
A	26.3	667	25.4	644
В	11.8	300	11.8	300
\mathbf{C}	13.5	344	13.5	344
D	13.5	342	13.5	342
E	12.1	307	12.1	307
F	5.2	132	5.2	132
G	26.0	660	26.0	660
Н	0.5	13	0.5	13
I	8.8	223	8.8	223
J	20.8	528	20.8	528
K	19.3	490	19.3	490
L	34.6	879	34.6	879
M	22.9	582	22.9	582
N	31.5	800	31.5	800
O	7.3	184	7.3	184
P	38.8	986	39.8	1011
Q R	31.6	803	31.5	800
R	24.1	613	24.1	613



HITCH DIMENSIONS AS TESTED - NO LOAD



CASE IH FARMALL 60 Diesel