

SUMMARY OF OECD TESTS 2809 & 2811 — NEBRASKA SUMMARY 942

CASE IH FARMALL 95C DIESEL

12 SPEED

POWER TAKE-OFF PERFORMANCE (Tractor equipped with 2 post ROPS)

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—640 rpm)					
82.7 (61.7)	2298	5.43 (20.55)	0.459 (0.279)	15.23 (3.00)	
Standard Power Take-off speed (540 rpm)					
90.1 (67.2)	1939	5.23 (19.81)	0.406 (0.247)	17.22 (3.39)	
VARYING POWER AND FUEL CONSUMPTION					
82.7 (61.7)	2298	5.43 (20.55)	0.459 (0.279)	15.23 (3.00)	Air temperature
70.9 (52.9)	2319	4.90 (18.54)	0.483 (0.294)	14.47 (2.85)	65°F (18°C)
53.8 (40.1)	2344	4.20 (15.89)	0.546 (0.332)	12.82 (2.53)	Relative humidity
36.2 (27.0)	2366	3.44 (13.03)	0.665 (0.404)	10.52 (2.07)	56%
18.2 (13.6)	2384	2.55 (9.67)	0.978 (0.595)	7.14 (1.41)	Barometer
--	2396	1.98 (7.48)	--	--	30.0" Hg (101.5 kPa)
Maximum torque -280.1 lb.-ft. (379.8 Nm) at 1497 rpm Maximum torque rise -48.1% Torque rise at 1840 engine rpm -36% Power increase at 1939 rpm -8.9%					

POWER TAKE-OFF PERFORMANCE (Tractor equipped with Cab)

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—641 rpm)					
82.9 (61.8)	2301	5.43 (20.57)	0.459 (0.279)	15.25 (3.00)	
Standard Power Take-off speed (540 rpm)					
90.4 (67.4)	1939	5.24 (19.83)	0.405 (0.247)	17.25 (3.40)	
VARYING POWER AND FUEL CONSUMPTION					
82.9 (61.8)	2301	5.43 (20.57)	0.459 (0.279)	15.25 (3.00)	Air temperature
70.9 (52.9)	2316	4.92 (18.62)	0.485 (0.295)	14.41 (2.84)	67°F (19°C)
54.0 (40.3)	2351	4.23 (16.00)	0.547 (0.333)	12.79 (2.52)	Relative humidity
36.2 (27.0)	2369	3.46 (13.10)	0.668 (0.406)	10.47 (2.06)	67%
18.2 (13.6)	2384	2.56 (9.70)	0.983 (0.598)	7.11 (1.40)	Barometer
--	2398	1.99 (7.52)	--	--	30.2" Hg (102.1 kPa)
Maximum torque -280.9 lb.-ft. (380.8 Nm) at 1493 rpm Maximum torque rise -48.5% Torque rise at 1840 engine rpm -36% Power increase at 1939 rpm -9.1%					

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

Dates of tests: August to December, 2013

Manufacturer: CNH Italia SpA, Viale delle Nazioni
55, Modena, 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 CJ-4 **Transmission and hydraulic lubricant** Akcela Nexplore fluid **Front axle lubricant** Akcela Nexplore fluid

ENGINE: Make FPT Industrial Diesel **Type** four cylinder vertical with turbocharger and air to air intercooler **Serial No.** 000136444 **Crankshaft lengthwise Rated engine speed** 2300 **Bore and stroke** 3.898" x 4.331" (99.0 mm x 110.0 mm) **Compression ratio** 17.1 to 1 **Displacement** 207 cu in (3387 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 **Exhaust** regenerative particulate filter integrated within an underhood muffler with vertical outlet **Cooling medium temperature control** thermostat

CHASSIS: **Type** front wheel assist **Serial No.** ZDJX 50046 **Tread width** rear 52.6" (1337 mm) to 76.3" (1937 mm) front 48.6" (1235 mm) to 76.3" (1937 mm) **Wheel base** 88.9" (2258 mm) **Hydraulic control system** direct engine drive **Transmission** selective gear fixed ratio **Nominal travel speeds mph(km/h)** first 1.34 (2.15) second 1.99 (3.20) third 2.95 (4.74) fourth 3.12 (5.02) fifth 4.32 (6.95) sixth 4.64 (7.47) seventh 6.87 (11.06) eighth 7.34 (11.82) ninth 10.09 (16.24) tenth 10.94 (17.60) eleventh 16.18 (26.04) twelfth 23.75 (38.22) reverse 1.31 (2.11), 1.95 (3.14), 2.88 (4.64), 3.06 (4.92), 4.23 (6.81), 4.55 (7.32), 6.74 (10.84), 7.20 (11.59), 9.89 (15.91), 10.72 (17.25), 15.86 (25.52), 23.28 (37.47) **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 1938 engine rpm or 1000 rpm at 1926 engine rpm **Unladen tractor mass** w/2 post ROPS- 7505 lbs (3405 kg), w/cab - 8265 lb (3750 kg)

Famall 95C - with 2 post ROPS

(Unballasted - Front Drive Engaged)

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—7th(3M)Gear									
59.5 (44.4)	3445 (15.34)	6.48 (10.43)	2298	7.1	0.541 (0.359)	11.84 (2.33)	199 (93)	48 (9)	29.9 (101.2)
75% of Pull at Maximum Power—7th(3M) Gear									
46.0 (34.3)	2585 (11.51)	6.68 (10.74)	2331	5.7	0.667 (0.406)	10.50 (2.07)	199 (93)	48 (9)	29.9 (101.2)
50% of Pull at Maximum Power—7th(3M)Gear									
31.4 (23.4)	1725 (7.67)	6.82 (10.98)	2356	4.6	0.830 (0.505)	8.43 (1.66)	199 (93)	48 (9)	29.9 (101.2)
75% of Pull at Reduced Engine Speed—8th(1H) Gear									
46.0 (34.3)	2590 (11.51)	6.67 (10.74)	2172	5.4	0.586 (0.357)	11.93 (2.35)	199 (93)	46 (8)	29.9 (101.2)
50% of Pull at Reduced Engine Speed—8th(1H) Gear									
31.4 (23.4)	1725 (7.67)	6.83 (10.98)	2203	4.6	0.721 (0.439)	9.70 (1.91)	201 (94)	48 (9)	29.9 (101.2)
MAXIMUM POWER IN SELECTED GEARS									
6th(2M) Gear									
60.3 (45.0)	6175 (27.48)	3.66 (5.89)	2097	15.0	0.586 (0.356)	11.93 (2.35)	199 (93)	46 (8)	29.9 (101.2)
7th(3M) Gear									
72.0 (53.7)	5025 (22.36)	5.37 (8.64)	1968	10.2	0.501 (0.305)	13.95 (2.75)	201 (94)	48 (9)	29.9 (101.2)
8th(1H) Gear									
73.1 (54.5)	4715 (20.97)	5.81 (9.35)	1975	9.1	0.494 (0.301)	14.15 (2.79)	201 (94)	48 (9)	29.9 (101.2)
9th(4M) Gear									
73.0 (54.4)	3325 (14.80)	8.23 (13.24)	1974	6.6	0.497 (0.302)	14.07 (2.77)	199 (93)	48 (9)	29.9 (101.2)

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 claims of 12.5 GPM for standard pump nor 16.9 GPM with optional pump. This tractor did not meet the manufacturer's 3 point lift capacity claim of 5620 lbs. The performance results on this summary were taken from OECD tests conducted under the OECD Code 2 test procedure.

We, the undersigned, certify that this is a true summary of data from OECD Reports No. **2809** and **2811**, Nebraska Summary 942, July 11, 2014.

Roger M. Hoy
Director

M.F. Kocher
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Board of Tractor Test Engineers

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
—Front
—Total

Tested without ballast

Two 540/65R34;**,23 (160)
Two 440/65R24;**,23 (160)
18.1 in (460 mm)
4595 lb (2085 kg)
3075 lb (1395 kg)
7670 lb (3480 kg)

Famall95C - with cab
(Unballasted - Front Drive Engaged)

DRAWBAR PERFORMANCE
FUEL CONSUMPTION CHARACTERISTICS

Power Hp (kW)	Drawbar pull lbs (kN)	Speed mph (km/h)	Crank- shaft speed rpm	Slip %	Fuel Consumption		Temp. °F cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
Maximum Power—7th(3M)Gear									
61.0 (45.5)	3465 (15.42)	6.60 (10.63)	2303	5.6	0.593 (0.361)	11.78 (2.32)	198 (92)	43 (6)	30.1 (101.8)
75% of Pull at Maximum Power—7th(3M) Gear									
47.1 (35.1)	2600 (11.57)	6.79 (10.93)	2333	4.2	0.669 (0.407)	10.46 (2.06)	196 (91)	43 (6)	30.1 (101.8)
50% of Pull at Maximum Power—7th(3M)Gear									
32.1 (23.9)	1735 (7.71)	6.94 (11.17)	2358	3.3	0.812 (0.494)	8.61 (1.70)	196 (91)	41 (5)	30.1 (101.8)
75% of Pull at Reduced Engine Speed—8th(1H) Gear									
47.1 (35.1)	2600 (11.57)	6.79 (10.93)	2178	4.0	0.589 (0.359)	11.87 (2.34)	194 (90)	41 (5)	30.1 (101.8)
50% of Pull at Reduced Engine Speed—8th(1H) Gear									
32.1 (23.9)	1735 (7.71)	6.94 (11.17)	2208	3.2	0.721 (0.439)	9.70 (1.91)	194 (90)	41 (5)	30.1 (101.8)

MAXIMUM POWER IN SELECTED GEARS

6th(2M) Gear									
65.2 (48.6)	6695 (29.78)	3.65 (5.88)	2094	15.0	0.558 (0.339)	12.54 (2.47)	196 (91)	46 (8)	30.1 (101.8)
7th(3M) Gear									
71.3 (53.2)	4905 (21.82)	5.46 (8.78)	1958	8.5	0.505 (0.307)	13.86 (2.73)	198 (92)	46 (8)	30.1 (101.8)
8th(1H) Gear									
73.1 (54.5)	4625 (20.58)	5.93 (9.54)	1983	7.7	0.494 (0.300)	14.16 (2.79)	199 (93)	45 (7)	30.1 (101.8)
9th(4M) Gear									
72.4 (54.0)	3275 (14.58)	8.29 (13.34)	1965	5.5	0.500 (0.304)	13.97 (2.75)	198 (92)	45 (7)	30.1 (101.8)

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
 — Front
 — Total

Tested without ballast

Two 540/65R34; **; 23 (160)
 Two 440/65R24; **; 23 (160)
 18.1 in (460 mm)
 5050 lb (2290 kg)
 3385 lb (1535 kg)
 8435 lb (3825 kg)

TRACTOR SOUND LEVEL WITHOUT CAB	FWA dB(A)	2WD dB(A)
At no load in 6th (2M) gear	81.0	81.0
Bystander	--	--

TRACTOR SOUND LEVEL WITH CAB	FWA dB(A)	2WD dB(A)
At no load in 6th (2M) gear	76.0	76.0
Bystander	--	--

HYDRAULIC PERFORMANCE

CATEGORY: II

Quick Attach: None

OECD Static test

Maximum force exerted through whole range:	3530 lbs (15.7 kN)	
	<u>Standard pump</u>	<u>Optional pump</u>
i) Sustained pressure with relief valve open:	2800 psi (193 bar)	2845 psi (196 bar)
ii) Pump delivery rate at minimum pressure:	11.6 GPM (44.0 l/min)	14.9 GPM (56.5 l/min)
iii) Pump delivery rate at maximum		
hydraulic power:	10.7 GPM (40.5 l/min)	13.4 GPM (50.8 l/min)
Delivery pressure:	2555 psi (176 bar)	2525 psi (174 bar)
Power:	16.0 hp (11.9 kW)	19.7 hp (14.7 kW)

HITCH DIMENSIONS AS TESTED—NO LOAD

	inch	mm
A	25.6	650
B	10.0	255
C	13.9	352
D	11.7	296
E	10.0	255
F	8.3	210
G	29.5	750
H	0.6	15
I	15.2	385
J	21.2	540
K	17.9	455
L	42.6	1083
M	22.0	558
N	37.5	953
O	13.7	349
P	45.3	1150
Q	42.7	1085
R	21.6	545

