SUMMARY OF OECD TEST 3004-NEBRASKA SUMMARY 1133 CASE IH FARMALL 100C DIESEL 12 SPEED

POWER TAKE-OFF PERFORMANCE

Power HP (kW)	Crank shaft speed rpm	Diesel Consumption Gal/hr (l/h)	lb/hp.hr (kg/kW.h)	Hp.hr/ga (kW.h/l)	D.E.F. Consumption l Gal/hr (l/h)	n Mean Atmospheric Conditions
	MAX	IMUM P	OWER	AND F	UEL CO	NSUMPTION
		Rated E	ngine Spe	ed—(PTC	Speed—63	2 rpm)
79.3 (59.1)	2291	5.16 (19.55)	0.456 (0.277)	15.33 (3.02)	0.17 (0.65)	
		Stand	ard Power	Take-off	Speed (540	rpm)
85.3	1958	4.86	0.398	17.56	0.11	. ,
(63.6)		(18.40)	(0.242)	(3.46)	(0.43)	
		Maxi	mum Pow	er (1 hour	.)	
85.8	1889	4.81	0.391	17.87	0.11	
(64.0)		(18.19)	(0.238)	(3.52)	(0.42)	
ARYING	POWER	AND FU	EL CON	SUMPT	ION	
79.3	2291	5.16	0.456	15.33	0.17	Airtemperature
(59.1)		(19.55)	(0.277)	(3.02)	(0.65)	
68.1	2320	4.73	0.485	14.42	0.16	76°F(24°C)
(50.8)		(17.90)	(0.295)	(2.84)	(0.59)	, ,
51.6	2342	3.95	0.536	13.05	0.12	Relative humidity
(38.5)		(14.96)	(0.326)	(2.57)	(0.47)	,
34.7	2364	3.20	0.643	10.87	0.10	59%
(25.9)		(12.10)	(0.391)	(2.14)	(0.37)	
17.5	2385	2.50	0.997	7.02	0.07	Barometer
(13.1)		(9.45)	(0.606)	(1.38)	(0.26)	
	2407	1.84			0.05	30.0" Hg(101.5 kPa)
		(6.95)			(0.20)	0.

Maximum torque rise - 55.9% Torque rise at 1889 engine rpm - 31% Power increase at 1889 engine rpm - 8.3%

DRAWBAR PERFORMANCE UNBALLASTED - FRONT DRIVE ENGAGED FUEL CONSUMPTION CHARACTERISTICS

Power Hp (kW)	Drawbar pull lbs (kN)	Speed mph (km/h)	Crank- shaft speed rpm	Slip %	Fuel Cons lb/hp.hr (kg/kW.h)	umption Hp.hr/gal (kW.h/l)	D.E.F Consumption lb/hp.hr (kg/kW.h)	Temp. n cool- ing med	°F(°C) Baroi Air inch dry Hg bulb (kPa	1
			Power at	Rated F	ngine Spee	d-8th (4N	f) Gear			
66.0 (49.2)	4015 (17.87)	6.16 (9.92)	2300	5.6	0.503 (0.306)	13.91 (2.74)	0.021) (0.013)	208 (98)	77 30.1 (25) (101.8	
		7	5% of Pull	at Rate	d Engine Sp	eed—8th(4M) Gear			
50.6 (37.7)	3015 (13.40)	6.29 (10.13)	2322	4.5	0.636 (0.387)	11.00 (2.17)	0.026	208 (98)	77 30.1 (25) (101.8	
	50% of Pull at Rated Engine Speed—8th (4M) Gear									
34.8	2010	6.49	2345	2.8	0.769	9.09		207	77 30.1	
(25.9)	(8.94)	(10.44)			(0.468)	(1.79)	(0.021)	(97)	(25) (101.8	3)
	75% of Pull at Reduced Engine Speed—9th (1H) Gear									
50.6	3015	6.29	1861	4.3	0.584	11.98		208	77 30.1	
(37.7)	(13.40)	(10.13)			(0.355)	(2.36)	(0.015)	(98)	(25) (101.8	?)
	50% of Pull at Reduced Engine Speed—9th (1H) Gear									
34.8	2010	6.49	1892	2.9	0.746	9.38	0.033	208	77 30.1	
(25.9)	(8.94)	(10.44)			(0.454)	(1.85)	(0.020)	(98)	(25) (101.8	3)

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

Dates of tests: April, 2016

Manufacturer: CNH Industrial Italia S.p.A, viale delle, Nazioni 55, 41122 - Modena, Italy

CONSUMABLE Fluids, OIL and TIME: 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) Diesel Exhaust Fluid (DEF) 32% aqueous urea solution DEF weight 9.071 lbs/gal (1.087 kg/l) Oil SAE 10W30 API service classification CJ-4 Transmission and hydraulic lubricant Akcela Nexplore fluid Front axle lubricant Akcela Nexplore fluid

ENGINE: Make F.P.T Industrial Diesel Type Four cylinder vertical with turbocharger, air to air intercooler and D.E.F. (diesel exhaust fluid) exhaust treatment Serial No. 284123 Crankshaft lengthwise Rated engine speed 2300 Bore and stroke 3.898" x 4.331" (99.0 mm x 110.0 mm) Compression ratio 17.0 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 DOC (diesel oxidation catalyst) and SCR (selective catalyst reduction) integrated within a vertical muffler Cooling medium temperature control one thermostat and variable speed fan

CHASSIS: Type front wheel assist Serial No. ZFLF 00452 **Tread width** rear 52.6" (1337mm) to 76.3" (1937 mm) front 48.6" (1235 mm) to 76.7" (1947 mm) Wheelbase 90.0" (2285 mm) Hydraulic control system direct engine drive Transmission selective gear fixed ratio Nominal travel speeds **mph** (km/h) first 0.60 (0.97) second 0.92 (1.48) third 1.35 (2.17) fourth 1.87 (3.01) fifth 2.08 (3.34) sixth 3.18 (5.11) seventh 4.65 (7.48) eighth 6.45 (10.38) ninth 7.99 (12.86) tenth 12.22 (19.67) eleventh 17.90 (28.80) twelfth 24.84 (39.97) reverse 0.60 (0.97), 0.92 (1.48), 1.34 (2.16), 1.86 (3.00), 2.07 (3.33), 3.16 (5.09), 4.64 (7.46), 6.43 (10.35), 7.97 (12.82), 12.19 (19.61), 17.85 (28.72), 24.77 (39.86) 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 1957 engine rpm or 1000 rpm at 2125 engine rpm Unladen tractor mass 8225 lb (3730 kg)

DRAWBAR PERFORMANCE AT 1889 ENGINE RPM UNBALLASTED - FRONT DRIVE ENGAGED MAXIMUM POWER IN SELECTED GEARS

Power Hp (kW)	Drawbar pull lbs (kN)	Speed mph (km/h)	Crank- shaft speed rpm	Slip %	Fuel Cons lb/hp.hr (kg/kW.h)		D.E.F Consumption lb/hp.hr (kg/kW.h)	Temp cool- ing med	°F(°C) Baros Air incl dry Hg bulb (kPa	h S
50.7 (37.8)	6830 (30.39)	2.78 (4.48)	2339	15.0	6th (2M) Go 0.569 (0.346)	ear 12.28 (2.42)	0.025 (0.015)	208 (98)	79 30.1 (26) (101.8	
55.1 (41.1)	6010 (26.73)	3.44 (5.54)	1886	11.0	7th (3M) Go 0.604 (0.368)	ear 11.57 (2.28)	0.026 (0.016)	207 (97)	77 30.1 (25) (101.8	-
70.5 (52.6)	5365 (23.86)	4.93 (7.93)	1888	8.4	8th (4M) Ge 0.475 (0.289)	ear 14.72 (2.90)	0.021 (0.013)	207 (97)	77 30.1 (25) (101.8	
73.1 (54.5)	4405 (19.59)	6.22 (10.01)	1881	6.0	9th(1H) Ge 0.460 (0.280)	ear 15.21 (3.00)	0.021 (0.013)	208 (98)	77 30.1 (25) (101.8	-
72.8 (54.3)	2790 (12.42)	9.78 (15.73)	1884	3.7	10th(2H) Go 0.460 (0.280)	ear 15.21 <i>(3.00)</i>	0.021 (0.013)	207 (97)	77 30.1 (25) (101.8	_

REPAIRS AND ADJUSTMENTS: No repairs or adjustments.

REMARKS: All test results were determined from observed data obtained in accordance with official OECD test procedures. The manufacturer's 3 point lift capacity claim of 7351 lbs (3334 kg), with optional lift cylinders, was not verified. The performance results on this summary were taken from tests conducted under the OECD Code 2 test procedure.

We, the undersigned, certify that this is a true summary of data from OECD Report No. **3004**, Nebraska Summary 1133, December 14, 2017.

Roger M. Hoy Director

> M.F. Kocher J.D. Luck S.K. Pitla Board of Tractor Test Engineers

	Front Wheel Drive			
TRACTOR SOUND LEVEL WITH CAB	$\begin{array}{c} \textbf{Engaged} \\ \textbf{dB(A)} \end{array}$	Disengaged dB(A)		
At no load in 7th (3M) gear	77.5	77.5		
Bystander				

Horizontal distance of drawbar hitch point behind rear wheel axis - 34.8 in (885 mm)

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

 $\begin{aligned} & \text{Two } 460/85\text{R34}; **; 23(160) \\ & \text{Two } 380/85\text{R24}; **; 23(160) \\ & 18.1 & \text{in } (460 \text{ } mm) \\ & 5040 & \text{lb } (2285 \text{ } kg) \\ & 3350 & \text{lb } (1520 \text{ } kg) \\ & 8390 & \text{lb } (3805 \text{ } kg) \end{aligned}$

HYDRAULIC PERFORMANCE

CATEGORY: II Quick Attach: None OECD Static test

Maximum force exerted through whole range: 5760 lbs (25.6 kN)

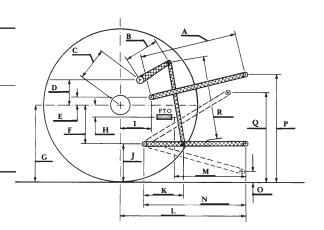
i) Sustained pressure with relief valve open: 3000 psi (206 bar) ii) Pump delivery rate at minimum pressure: 17.1 GPM (65.0 l/min)

iii) Pump delivery rate at maximum

 hydraulic power:
 15.2 GPM (57.4 l/min)

 Delivery pressure:
 2685 psi (185 bar)

 Power:
 23.8 hp (17.7 kW)



HITCH DIMENSIONS AS TESTED—NO LOAD

	inch	mm
A	28.7	730
В	10.0	255
C	13.8	351
D	12.7	323
E	11.8	300
F	7.4	189
G	30.5	775
Н	0.6	16
I	13.0	330
J	23.1	586
K	19.7	500
L	42.1	1070
M	23.2	590
N	36.0	915
O	16.3	415
P	47.1	1196
Q	40.9	1038
R	24.2	615

RECOMMENDED CITATION FORMAT:

NTTL.(2017). OECD tractor test 3004 for Case IH Farmall 100C Diesel.

Lincoln, NE:Nebraska Tractor Test Laboratory. Retrieved from http://tractortestlab.unl.edu