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Nebraska Tractor Test: 2262 John Deere 9R 540

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NEBRASKA OECD TRACTOR TEST 2262-SUMMARY 1225

JOHN DEERE 9R 540 DIESEL

18 SPEED

POWER TAKE-OFF PERFORMANCE

Power HP (kW)	Crank shaft speed rpm	Diesel Consumption		D.E.F. Consumption		Mean Atmospheric Conditions
		Gal/hr (l/h)	lb/hp.hr (kg/kW.h)	Hp.hr/gal (kW.h/l)	Gal/hr (l/h)	
MAXIMUM POWER AND FUEL CONSUMPTION						
SEE NOTE 1 - PAGE 2						
Rated Engine Speed—(PTO speed—1108 rpm)						
321.75 (239.93)	2099	18.69 (70.73)	0.408 (0.248)	17.22 (3.39)	0.85 (3.22)	Fuel used during active exhaust regeneration-1.02 gal (3.84 l) (see note 2, p.2)
Standard Power Take-off Speed(1000 rpm)						
367.37 (273.95)	1895	20.26 (76.69)	0.387 (0.236)	18.13 (3.57)	0.66 (2.49)	
Maximum Power (1 hour)						
371.92 (277.34)	1749	19.85 (75.16)	0.375 (0.228)	18.73 (3.69)	0.65 (2.48)	

VARYING POWER AND FUEL CONSUMPTION

321.75 (239.93)	2099	18.69 (70.73)	0.408 (0.248)	17.22 (3.39)	0.85 (3.22)	Air temperature
280.10 (208.87)	2150	17.14 (64.88)	0.430 (0.261)	16.34 (3.22)	0.79 (3.00)	73°F (23°C)
209.97 (156.57)	2150	13.92 (52.68)	0.465 (0.283)	15.09 (2.97)	0.57 (2.15)	Relative humidity
140.07 (104.45)	2150	11.40 (43.15)	0.572 (0.348)	12.29 (2.42)	0.54 (2.06)	15%
70.13 (52.30)	2150	8.53 (32.30)	0.854 (0.520)	8.22 (1.62)	0.31 (1.18)	Barometer
1.16 (0.87)	2150	5.81 (22.00)	35.173 (21.395)	0.20 (0.04)	0.39 (1.49)	28.71" Hg (97.22 kPa)

Maximum Torque - 1188 lb.-ft. (1610 Nm) at 1550 rpm
 Maximum Torque Rise - 47.6%
 Torque rise at 1679 engine rpm - 43%
 Power increase at 1749 engine rpm - 15.6%

DRAWBAR PERFORMANCE (Unballasted)

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)	D.E.F. Consumption Hp.hr/gal (kW.h/l)	Temp. °F (°C)	Barom. inch Hg (kPa)
Power at Rated Engine Speed—7th Gear- Manual mode								
423.34 (315.68)	30970 (137.76)	5.13 (8.26)	2100	2.5	0.432 (0.263)	16.26 (3.20)	0.020 (0.012)	204 (96)
75% of Pull at Rated Engine Speed—7th Gear - Manual mode								
327.96 (244.56)	23115 (102.82)	5.32 (8.56)	2166	1.9	0.449 (0.273)	15.64 (3.08)	0.024 (0.015)	205 (96)
50% of Pull at Rated Engine Speed—7th Gear- Manual mode								
223.09 (166.36)	15433 (68.65)	5.42 (8.72)	2189	1.0	0.484 (0.294)	14.52 (2.86)	0.032 (0.019)	205 (96)
75% of Pull at Reduced Engine Speed— 5.5 mph (8.8 km/h)-Auto mode								
327.12 (243.93)	22860 (101.68)	5.37 (8.63)	1444	1.8	0.390 (0.237)	18.02 (3.55)	0.030 (0.018)	204 (96)
50% of Pull at Reduced Engine Speed— 5.5 mph (8.8 km/h)-Auto mode								
223.72 (166.82)	15515 (69.01)	5.41 (8.71)	1444	1.1	0.413 (0.251)	17.01 (3.35)	0.024 (0.015)	203 (95)

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

Dates of tests: April 11 - 18, 2023

Manufacturer: John Deere Tractor Works, 3500 East Donald St., P.O. Box 270, Waterloo Ia, 50704-0270

CONSUMABLE Fluids, OIL and TIME: Fuel No. 2 Diesel **Specific gravity converted to 60°/60°F (15°/15°C)** 0.8434 **Fuel weight** 7.023 lbs/gal (0.842 kg/l) **Diesel Exhaust Fluid (DEF)** 32% aqueous urea solution **DEF weight** 9.071 lbs/gal (1.087 kg/l) **Oil SAE 10W-30 API service classification CK-4 Transmission, hydraulic and final drive lubricant** John Deere Hy-Gard fluid **Total time engine was operated:** 24.0 hours

ENGINE: Make John Deere **Diesel Type** six cylinder vertical with two turbochargers, air to air aftercooler and D.E.F. (diesel exhaust fluid) exhaust treatment **Serial No.** *RG6136U005583* **Crankshaft** lengthwise **Rated engine speed** 2100 **Bore and stroke** 5.197" x 6.496" (132.0 mm x 165.0 mm) **Compression ratio** 15.9 to 1 **Displacement** 826 cu in (13548 ml) **Starting system** 12 volt **Lubrication** pressure **Air cleaner** two paper elements and aspirator **Oil filter** one full flow cartridge **Oil cooler** radiator for crankcase oil, radiator for transmission/hydraulic oil also feeding front and rear axles **Fuel filter** two paper cartridges **Fuel cooler** radiator for returned fuel **Exhaust** DOC (diesel oxidation catalyst) and SCR (selective catalyst reduction) integrated within a vertical muffler **Cooling medium temperature control** 1 thermostat and variable speed fan

ENGINE OPERATING PARAMETERS: Fuel rate: Stationary PTO operations (390 engine hp) 126.7 - 137.2 lb/h (57.5 - 62.2 kg/h) Drawbar operations (540 engine hp) 175.0 - 189.2 lb/h (79.4 - 85.8 kg/h) **High idle:** 2215 - 2265 rpm (2125 - 2175 rpm with PTO engaged) **Turbo boost:** nominal 32.6 - 37.0 psi (225 - 255 kPa) as measured 34.5 psi (238 kPa)

CHASSIS: Type four wheel drive with duals **Serial No.** *1RW9640DEPA080498* **Tread width** rear 155.0" (3937 mm) to 160.5" (4077 mm), front 155.0" (3937 mm) to 160.5" (4077 mm) **Wheelbase** 154.0" (3912 mm) **Hydraulic control system** direct engine drive **Transmission** selective gear fixed ratio with full range operator controlled power shift **Nominal travel speeds mph (km/h)** first 2.56 (4.12) second 3.16 (5.09) third 3.48 (5.60) fourth 3.91 (6.29) fifth 4.30 (6.92) sixth 4.82 (7.76) seventh 5.31 (8.55) eighth 5.91 (9.51) ninth 6.56 (10.55) tenth 7.29 (11.73) eleventh 8.03 (12.92) twelfth 8.84 (14.22) thirteenth 9.91 (15.95) fourteenth 10.91 (17.55) fifteenth 13.47 (21.68) sixteenth 16.63 (26.76) seventeenth 20.38 (32.79) eighteenth 24.86 (40.00) (electronically limited)

DRAWBAR PERFORMANCE
(Unballasted at 2100 rpm - manual mode)

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)	D.E.F. Consumption lb/hp.hr (kg/kW.h)	Temp. ^o F cool- ing med	°C Air dry bulb	Barom. inch Hg (kPa)
1st Gear										
330.08 (246.14)	51938 (231.03)	2.39 (3.84)	2159	8.7	0.485 (0.295)	14.50 (2.86)	0.025 (0.015)	205 (96)	62 (17)	28.47 (96.41)
2nd Gear										
387.37 (288.86)	49985 (222.34)	2.91 (4.68)	2102	7.3	0.470 (0.286)	14.94 (2.94)	0.025 (0.015)	205 (96)	64 (18)	28.47 (96.41)
3rd Gear										
401.39 (299.32)	46220 (205.60)	3.26 (5.25)	2102	5.7	0.452 (0.275)	15.54 (3.06)	0.024 (0.015)	205 (96)	66 (19)	28.46 (96.38)
4th Gear										
404.93 (301.96)	41137 (182.98)	3.69 (5.94)	2099	4.6	0.450 (0.273)	15.62 (3.08)	0.025 (0.015)	205 (96)	69 (21)	28.44 (96.31)
5th Gear										
407.32 (303.73)	37369 (166.23)	4.09 (6.58)	2099	4.0	0.447 (0.272)	15.73 (3.10)	0.024 (0.015)	206 (97)	73 (23)	28.43 (96.28)
6th Gear										
416.79 (310.80)	33719 (149.99)	4.64 (7.46)	2100	2.9	0.438 (0.266)	16.05 (3.16)	0.021 (0.013)	204 (96)	57 (14)	28.92 (97.92)
7th Gear										
423.34 (315.68)	30970 (137.76)	5.13 (8.26)	2100	2.5	0.432 (0.263)	16.26 (3.20)	0.020 (0.012)	204 (96)	54 (12)	28.92 (97.93)
8th Gear										
422.46 (315.03)	27721 (123.31)	5.72 (9.20)	2100	2.2	0.431 (0.262)	16.31 (3.21)	0.021 (0.013)	204 (96)	60 (16)	28.91 (97.88)
9th Gear										
419.86 (313.09)	24761 (110.14)	6.36 (10.24)	2099	1.9	0.433 (0.263)	16.21 (3.19)	0.021 (0.013)	204 (96)	62 (17)	28.90 (97.87)
10th Gear										
420.22 (313.36)	22229 (98.88)	7.09 (11.41)	2099	1.7	0.432 (0.263)	16.27 (3.21)	0.021 (0.013)	204 (96)	64 (18)	28.90 (97.87)
11th Gear										
421.34 (314.19)	20195 (89.83)	7.83 (12.59)	2099	1.5	0.431 (0.262)	16.31 (3.21)	0.022 (0.014)	205 (96)	68 (20)	28.89 (97.82)
12th Gear										
423.73 (315.97)	18431 (81.99)	8.63 (13.88)	2100	1.3	0.427 (0.260)	16.45 (3.24)	0.022 (0.013)	205 (96)	70 (21)	28.88 (97.80)

TRACTOR SOUND LEVEL WITH CAB

dB(A)

At no load in 6th gear	72.2
Transport speed - no load - 18th gear	72.7
Bystander in 18th gear	83.5

Horizontal distance of drawbar hitch point behind rear wheel axis - 44.0"(1118 mm), 49.9"(1268 mm)

TIRES, BALLAST 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

Four 800/70R38;***;9(60)
Four 800/70R38;***;9(60)
23.0 in (585 mm)
19255 lb (8734 kg)
28630 lb (12986 kg)
47885 lb (21720 kg)

reverse 2.56 (4.12), 3.48 (5.60), 3.91 (6.29), 5.31 (8.55), 5.91 (9.51), 8.03 (12.92) **Clutch** wet multiple disc hydraulically actuated by foot pedal **Brakes** wet multiple disc hydraulically actuated by foot pedal **Steering** hydrostatic and articulated **Power take-off** 1000 rpm at 1895 engine rpm **Unladen tractor mass** 47710 lb (21641 kg)

REPAIRS AND ADJUSTMENTS: No repairs or adjustments.

NOTE 1. In stationary PTO operation, this model operates in a derated power mode. With stationary PTO operation, using FieldCruise™, an isochronous governor is utilized. All PTO tests were conducted with FieldCruise™ engaged.

NOTE 2. The manufacturer declares that the average time between active regenerations is over 50 hours. A 1% power increase was observed during the active exhaust regeneration.

NOTE 3: The performance figures on this report are the result of replacing the electronic control module of the John Deere 9R 640 with the John Deere 9R 540 module.

NOTE 4: The John Deere 9R 540 T.E.C.U. (Tractor Electronic Control Unit) is compliant with ISOBUS 11783.

REMARKS: All test results were determined from observed data obtained in accordance with official OECD, SAE and Nebraska test procedures. The drawbar pull in 1st gear was limited to avoid excessive power hop. This tractor fell 0.1% short meeting the manufacturer's remote hydraulic flow claim of 58.0 GPM (219 l/min). The manufacturer's remote hydraulic flow claim of 42.0 GPM (159 l/min) with the optional 3/4" coupler set was not verified. The performance figures on this summary were taken from a test conducted under the OECD Code 2 test procedure.

We, the undersigned, certify that this is a true and correct report of official Tractor Test No. **2262**, Nebraska Summary 1225, April 16, 2024.

Roger M. Hoy
Director

P.J. Jasa
J.D. Luck
Y. Shi
Board of Tractor Test Engineers

DRAWBAR PERFORMANCE
UNBALLASTED - AUTO MODE
(Loads based on 2100 engine rpm manual mode performance runs)
DRAWBAR POWER AT SELECTED TRAVEL SPEEDS

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)	D.E.F. Consumption lb/hp.hr (kg/kW.h)	Temp.°F (°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
3.5 mph (5.6 km/h)										
401.12 (299.11)	45902 (204.18)	3.28 (5.28)	1717	5.9	0.412 (0.251)	17.04 (3.36)	0.024 (0.015)	204 (96)	69 (21)	28.44 (96.31)
3.9 mph (6.2 km/h)										
403.24 (300.69)	41009 (182.42)	3.69 (5.94)	1701	4.8	0.412 (0.251)	17.03 (3.36)	0.024 (0.015)	204 (96)	73 (23)	28.43 (96.28)
4.2 mph (6.8 km/h)										
406.38 (303.04)	37560 (167.07)	4.06 (6.53)	1687	4.1	0.403 (0.245)	17.44 (3.44)	0.023 (0.014)	205 (96)	76 (24)	28.41 (96.21)
4.7 mph (7.6 km/h)										
416.73 (310.76)	34094 (151.66)	4.58 (7.37)	1696	3.0	0.395 (0.240)	17.78 (3.50)	0.023 (0.014)	204 (95)	58 (14)	28.91 (97.90)
5.2 mph (8.4 km/h)										
420.22 (313.36)	30899 (137.44)	5.10 (8.21)	1693	2.5	0.396 (0.241)	17.71 (3.49)	0.022 (0.013)	205 (96)	57 (14)	28.92 (97.93)
5.8 mph (9.4 km/h)										
420.75 (313.75)	27584 (122.70)	5.72 (9.21)	1894	2.2	0.407 (0.248)	17.26 (3.40)	0.018 (0.011)	204 (96)	61 (16)	28.90 (97.87)
6.5 mph (10.4 km/h)										
419.40 (312.75)	24756 (110.12)	6.35 (10.22)	1886	1.9	0.407 (0.247)	17.26 (3.40)	0.018 (0.011)	204 (96)	64 (18)	28.90 (97.87)
7.2 mph (11.6 km/h)										
420.50 (313.57)	22280 (99.11)	7.08 (11.39)	1903	1.7	0.407 (0.248)	17.24 (3.40)	0.018 (0.011)	204 (96)	65 (18)	28.90 (97.87)
8.1 mph (13.0 km/h)										
420.26 (313.39)	20033 (89.11)	7.87 (12.67)	1918	1.5	0.406 (0.247)	17.28 (3.40)	0.018 (0.011)	204 (96)	69 (21)	28.88 (97.80)
8.7 mph (14.0 km/h)										
422.26 (314.88)	18409 (81.89)	8.60 (13.84)	1867	1.3	0.403 (0.245)	17.42 (3.43)	0.020 (0.012)	204 (96)	73 (23)	28.88 (97.80)

DRAWBAR PERFORMANCE
(Unballasted at 1800 RPM, Manual mode)
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)	D.E.F. Consumption lb/hp.hr (kg/kW.h)	Temp. °F (°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
1st Gear										
330.34 (246.33)	51920 (230.95)	2.39 (3.85)	2159	8.6	0.485 (0.295)	14.48 (2.85)	0.025 (0.015)	205 (96)	63 (17)	28.47 (96.41)
2nd Gear										
388.03 (289.35)	50075 (222.74)	2.91 (4.68)	2101	7.3	0.470 (0.286)	14.96 (2.95)	0.025 (0.015)	205 (96)	64 (18)	28.47 (96.41)
3rd Gear										
407.56 (303.91)	48031 (213.65)	3.19 (5.13)	2074	6.6	0.454 (0.276)	15.47 (3.05)	0.025 (0.015)	206 (96)	67 (19)	28.46 (96.38)
4th Gear										
423.80 (316.02)	44795 (199.26)	3.55 (5.71)	2041	5.7	0.441 (0.268)	15.91 (3.13)	0.023 (0.014)	207 (97)	71 (22)	28.44 (96.31)
5th Gear										
440.90 (328.78)	43024 (191.38)	3.85 (6.19)	2002	5.5	0.435 (0.265)	16.15 (3.18)	0.022 (0.013)	208 (98)	75 (24)	28.43 (96.28)
6th Gear										
451.76 (336.88)	41083 (182.75)	4.13 (6.64)	1906	4.9	0.425 (0.259)	16.52 (3.25)	0.023 (0.014)	208 (98)	76 (24)	28.40 (96.17)
7th Gear										
464.54 (346.41)	40406 (179.73)	4.31 (6.94)	1800	4.4	0.410 (0.249)	17.13 (3.37)	0.024 (0.015)	206 (97)	75 (24)	28.64 (96.99)
8th Gear										
471.69 (351.74)	36570 (162.67)	4.84 (7.79)	1800	3.5	0.404 (0.246)	17.39 (3.43)	0.024 (0.015)	206 (97)	73 (23)	28.64 (96.99)
9th Gear										
467.53 (348.64)	32482 (144.49)	5.40 (8.69)	1800	2.9	0.406 (0.247)	17.28 (3.40)	0.024 (0.015)	206 (97)	73 (23)	28.64 (96.99)
10th Gear										
473.42 (353.03)	29429 (130.91)	6.03 (9.70)	1800	2.4	0.402 (0.245)	17.48 (3.44)	0.023 (0.014)	206 (97)	69 (21)	28.65 (97.02)
11th Gear										
475.84 (354.83)	26775 (119.10)	6.67 (10.73)	1800	2.1	0.399 (0.243)	17.62 (3.47)	0.023 (0.014)	206 (97)	68 (20)	28.65 (97.02)
12th Gear										
479.09 (357.26)	24434 (108.69)	7.35 (11.83)	1801	1.9	0.395 (0.240)	17.78 (3.50)	0.023 (0.014)	206 (97)	70 (21)	28.65 (97.02)
13th Gear										
472.02 (351.99)	21410 (95.24)	8.27 (13.31)	1800	1.6	0.401 (0.244)	17.52 (3.45)	0.023 (0.014)	206 (97)	70 (21)	28.65 (97.02)

Lugging ability in 11th gear

Crankshaft speed rpm	2099	2000	1900	1799	1700	1600	1400	1102
Pull-lbs (kN)	20121 (89.50)	23273 (103.52)	25209 (112.14)	26850 (119.43)	28078 (124.90)	28890 (128.51)	28318 (125.96)	26355 (117.23)
Increase in pull%	0	16	25	33	40	44	41	31
Power-Hp (kW)	419.75 (313.01)	461.48 (344.13)	474.08 (353.52)	477.06 (355.74)	470.77 (351.05)	455.35 (339.55)	390.76 (291.39)	286.89 (213.93)
Speed-mpH (km/h)	7.83 (12.60)	7.44 (11.97)	7.06 (11.36)	6.66 (10.72)	6.29 (10.12)	5.91 (9.51)	5.17 (8.32)	4.08 (6.57)
Slip %	1.5	1.8	1.9	2.1	2.3	2.3	2.3	2.1

HYDRAULIC PERFORMANCE

CATEGORY: 4N/4
Quick Attach: Yes
OECD Static test

Maximum force exerted through whole range:

<u>Category 4N</u>	<u>lift cylinders</u>
16084 lbs(71.5 kN) (1 x 90 mm and 1x100 mm)	
21408 lbs(95.2 kN) (2 x 110 mm)	
<u>Category 4</u>	
15769 lbs(70.1 kN) (1 x 90 mm and 1x100 mm)	
21384 lbs(95.1 kN) (2 x 110 mm)	

Single pump system

	<u>single outlet set</u>	<u>three outlet sets combined</u>
i) Sustained pressure of the open relief valve:	2867 psi (198 bar)	2867 psi (198 bar)
ii) Pump delivery rate at minimum pressure and rated engine speed:	37.3 GPM(141.3 l/min)	57.9 GPM(219.0 l/min)
iii) Pump delivery rate at maximum hydraulic power:	34.7 GPM(131.3 l/min)	57.8 GPM(218.9 l/min)
Delivery pressure:	2245 psi (155 bar)	2473 psi (171 bar)
Power:	45.4 HP (33.9 kW)	83.4 HP (62.2 kW)

Dual pump system

	<u>Pump 1</u> <u>three sets combined</u>	<u>Pump 2</u> <u>two sets combined</u>
i) Sustained pressure at compensator cutoff:	2899 psi (200 bar)	2906 psi (200 bar)
ii) Pump delivery rate at minimum pressure and rated engine speed:	58.1 GPM(219.9 l/min)	58.3 GPM(220.7 l/min)
Combined flow:	116.4 GPM (440.6 l/min)	
iii) Pump delivery rate at maximum hydraulic power:	58.1 GPM(219.8 l/min)	57.6 GPM(218.0 l/min)
Delivery pressure:	2494 psi (172 bar)	2478 psi (171 bar)
Power:	84.5 HP (63.0 kW)	83.3 HP (62.1 kW)

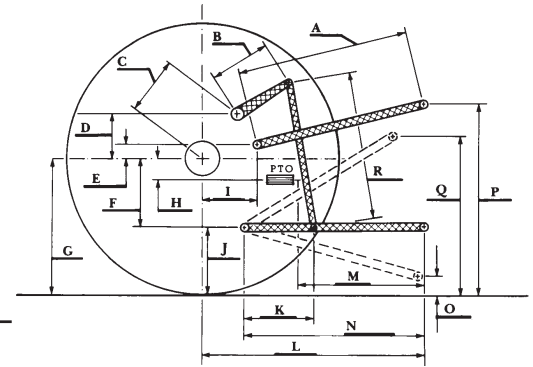
	<u>single outlet set - 1/2" couplers</u>	
i) Sustained pressure at compensator cutoff:	2899 psi (200 bar)	2906 psi (200 bar)
ii) Pump delivery rate at minimum pressure and rated engine speed:	36.9 GPM(139.7 l/min)	36.9 GPM(139.8 l/min)
iii) Pump delivery rate at maximum hydraulic power:	34.5 GPM(130.8 l/min)	35.3 GPM(133.8 l/min)
Delivery pressure:	2269 psi (156 bar)	2359 psi (163 bar)
Power:	45.7 HP (34.1 kW)	48.6 HP (36.3 kW)

Category 4N Category 4

	inch	mm	inch	mm
A	31.7	805	30.3	770
B	19.7	500	19.7	500
C	25.0	635	25.0	635
D	24.4	620	24.4	620
E	12.8	325	12.8	325
F	13.8	350	13.8	350
G	36.6	930	36.6	930
H	2.4	60	2.4	60
I	18.7	474	18.7	474
J	22.8	580	22.8	580
K	30.9	785	30.9	785
L	52.8	1342	52.8	1342
*L'	58.7	1491	59.6	1515
M	22.8	579	22.8	579
N	45.6	1159	45.6	1159
O	9.1	230	9.1	230
P	50.8	1290	50.8	1291
Q	41.1	1045	40.9	1040
R	47.0	1195	47.2	1200

*L' to Quick Attach ends

HITCH DIMENSIONS AS TESTED—NO LOAD



RECOMMENDED CITATION FORMAT:

NTTL.(2024).Nebraska OECD Tractor test 2262 for John Deere 9R 540 Diesel.
Lincoln, NE:Nebraska Tractor Test Laboratory. Retrieved from <http://tractortestlab.unl.edu>



JOHN DEERE 9R 540 DIESEL