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2012

## Test 2040: John Deere 9460R

Nebraska Tractor Test Lab

University of Nebraska-Lincoln, [tractortestlab@unl.edu](mailto:tractortestlab@unl.edu)

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# NEBRASKA OECD TRACTOR TEST 2040—SUMMARY 831

## JOHN DEERE 9460R DIESEL

### 18 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> SEE NOTE 1 - PAGE 2					
<b>Rated Engine Speed—(PTO speed—1108 rpm)</b>					
333.03 (248.34)	2099	21.20 (80.26)	0.449 (0.273)	15.71 (3.09)	Fuel used during active exhaust regeneration - 2.72 gal (10.29 l) (see Note 2 p.2)
<b>Standard Power Take-off Speed—(PTO speed—1000 rpm)</b>					
369.68 (275.67)	1895	21.52 (81.46)	0.410 (0.250)	17.18 (3.38)	
<b>Maximum Power (1 hour)</b>					
374.45 (279.23)	1749	21.19 (80.22)	0.399 (0.243)	17.67 (3.48)	

#### VARYING POWER AND FUEL CONSUMPTION

333.03 (248.34)	2099	21.20 (80.26)	0.449 (0.273)	15.71 (3.09)	Air temperature
282.90 (210.96)	2101	19.20 (72.69)	0.479 (0.291)	14.73 (2.90)	73°F (23°C)
214.45 (159.92)	2122	16.07 (60.82)	0.528 (0.321)	13.35 (2.63)	Relative humidity
144.70 (107.90)	2143	12.88 (48.76)	0.628 (0.382)	11.23 (2.21)	28%
72.85 (54.32)	2166	9.56 (36.20)	0.926 (0.563)	7.62 (1.50)	Barometer
1.85 (1.38)	2183	6.47 (24.48)	24.641 (14.988)	0.29 (0.06)	28.94" Hg (98.00 kPa)

Maximum Torque - 1220 lb.-ft. (1654 Nm) at 1550 rpm

Maximum Torque Rise - 46.5%

Torque rise at 1679 engine rpm - 40%

Power increase at 1749 engine rpm - 12.4%

#### 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)	Hp.hr/gal (kW.h/l)	Temp. °F (°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
<b>Maximum Power—7th Gear</b>									
367.43 (273.99)	28592 (127.18)	4.82 (7.76)	2100	3.0	0.459 (0.279)	15.37 (3.03)	191 (88)	69 (21)	28.62 (96.92)
<b>75% of Pull at Maximum Power—7th Gear</b>									
286.68 (213.78)	21476 (95.53)	5.01 (8.05)	2164	2.2	0.506 (0.308)	13.94 (2.75)	190 (88)	81 (27)	28.59 (96.82)
<b>50% of Pull at Maximum Power—7th Gear</b>									
194.77 (145.24)	14305 (63.63)	5.11 (8.22)	2189	1.3	0.585 (0.356)	12.05 (2.37)	187 (86)	82 (28)	28.56 (96.72)
<b>75% of Pull at Reduced Engine Speed—10th Gear</b>									
285.82 (213.13)	21464 (95.48)	5.00 (8.04)	1577	2.2	0.431 (0.262)	16.35 (3.22)	201 (94)	82 (28)	28.59 (96.82)
<b>50% of Pull at Reduced Engine Speed—10th Gear</b>									
195.46 (145.75)	14329 (63.74)	5.12 (8.23)	1603	1.3	0.468 (0.285)	15.05 (2.96)	188 (87)	82 (28)	28.57 (96.75)

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

**Dates of Test:** September 25 - October 4, 2012

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

**FUEL, OIL and TIME:** Fuel No. 2 Diesel Specific gravity converted to 60°/60°F (15°/15°C) 0.8467 Fuel weight 7.050 lbs/gal (0.845 kg/l) Oil SAE 15W-40 API service classification CH-4 Transmission, hydraulic and final drive lubricant John Deere Hy-Gard fluid Total time engine was operated: 30.0 hours

**ENGINE:** Make John Deere Diesel Type six cylinder vertical with two turbochargers and air to air aftercooler Serial No. \*RG6135R001842\* Crankshaft lengthwise Rated engine speed 2100 Bore and stroke 5.197" x 6.496" (132.0 mm x 165.0 mm) Compression ratio 16.0 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 engine coolant heat exchanger for crankcase oil, radiator for hydraulic oil, radiator for transmission, front and rear axle oil Fuel filter two paper cartridges Fuel cooler radiator for returned fuel Exhaust regenerative particulate filter integrated within a vertical muffler Cooling medium temperature control 2 thermostats and variable speed fan

**ENGINE OPERATING PARAMETERS:** Fuel rate: Stationary PTO operation 141.5 - 153.4 lb/h (64.2 - 69.6 kg/h), (385 engine hp) 136.5 - 147.7 lb/h (61.9 - 67.0 kg/h), (410 engine hp) 144.6 - 156.7 lb/h (65.6 - 71.1 kg/h), (435 engine hp) 153.2 - 166.0 lb/h (69.5 - 75.3 kg/h), (460 engine hp) 151.8 - 175.2 lb/h (73.4 - 79.5 kg/h) High idle: 2150 - 2250 rpm (2160 - 2200 rpm with PTO engaged) Turbo boost: (460 engine hp) nominal 29.0 - 33.4 psi (200 - 230 kPa) as measured 31.0 psi (215 kPa)

**CHASSIS:** Type four wheel drive with triples Serial No. \*1RW9460RLCP001946\* Tread width rear 59.1" (1500 mm) to 163.8" (4160 mm), front 59.1" (1500 mm) to 163.8" (4160 mm) Wheelbase 137.8" (3500 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 2.37 (3.81) second 2.91 (4.69) third 3.23 (5.19) fourth 3.60 (5.79) fifth 3.96 (6.38) sixth 4.42 (7.12) seventh 4.90 (7.89) eighth 5.47 (8.81) ninth 6.03 (9.71) tenth 6.74 (10.84) eleventh 7.46 (12.00) twelfth 8.25 (13.27) thirteenth 9.18 (14.77) fourteenth 10.15 (16.33) fifteenth 12.54 (20.18) sixteenth 15.43 (24.83) seventeenth 19.08 (30.70) eighteenth 23.48 (37.78) reverse 2.37 (3.81), 3.23 (5.19), 3.60 (5.79), 4.90 (7.89), 5.47 (8.81), 7.46 (12.00)

## DRAWBAR PERFORMANCE

(Unballasted at 2100 rpm)

### 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)	Consumption Hp.hr/gal (kW.h/l)	Temp.°F (°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
251.43 (187.49)	43371 (192.92)	2.17 (3.49)	2140	11.0	1st Gear 0.566 (0.344)	12.46 (2.45)	186 (86)	48 (9)	28.93 (97.97)
287.51 (214.39)	38539 (171.43)	2.80 (4.51)	2100	5.2	2nd Gear 0.510 (0.310)	13.83 (2.73)	187 (86)	49 (9)	28.92 (97.93)
295.58 (220.41)	35483 (157.83)	3.12 (5.02)	2100	4.3	3rd Gear 0.495 (0.301)	14.23 (2.80)	188 (87)	57 (14)	28.78 (97.46)
322.31 (240.34)	34459 (153.28)	3.51 (5.65)	2100	4.0	4th Gear 0.480 (0.292)	14.68 (2.89)	188 (87)	56 (13)	28.78 (97.46)
339.73 (253.34)	33070 (147.10)	3.85 (6.20)	2100	4.3	5th Gear 0.478 (0.291)	14.74 (2.90)	190 (88)	73 (23)	28.61 (96.88)
360.98 (269.18)	31257 (139.04)	4.33 (6.97)	2101	3.6	6th Gear 0.470 (0.286)	14.99 (2.95)	191 (88)	72 (22)	28.62 (96.92)
367.43 (273.99)	28592 (127.18)	4.82 (7.76)	2100	3.0	7th Gear 0.459 (0.279)	15.37 (3.03)	191 (88)	69 (21)	28.62 (96.92)
369.46 (275.51)	25756 (114.57)	5.38 (8.66)	2100	2.6	8th Gear 0.458 (0.279)	15.40 (3.03)	191 (88)	68 (20)	28.61 (96.88)
366.53 (273.32)	22989 (102.26)	5.98 (9.62)	2100	2.3	9th Gear 0.462 (0.281)	15.26 (3.01)	191 (88)	74 (23)	28.61 (96.88)
366.16 (273.04)	20617 (91.71)	6.66 (10.71)	2101	2.0	10th Gear 0.462 (0.281)	15.27 (3.01)	195 (91)	75 (24)	28.61 (96.88)
366.57 (273.35)	18622 (82.83)	7.38 (11.88)	2100	1.8	11th Gear 0.463 (0.281)	15.24 (3.00)	194 (90)	76 (24)	28.61 (96.88)
365.98 (272.91)	16686 (74.22)	8.23 (13.24)	2100	1.6	12th Gear 0.461 (0.280)	15.29 (3.01)	197 (92)	77 (25)	28.60 (96.85)

### TRACTOR SOUND LEVEL WITH CAB

	dB(A)
At no load in 6th gear	73.1
Transport speed - no load - 18th gear	74.6
Bystander in 18th gear	85.7

### TIRES, BALLAST AND WEIGHT

	With Ballast	Without Ballast
<b>Rear Tires</b> - No., size, ply & psi(kPa)	Six 480/80R46;***;12(85)	Six 480/80R46;***;12(85)
<b>Ballast</b> - Liquid (total)	None	None
- Cast Iron (total)	4255 lb (1930 kg)	None
<b>Front Tires</b> - No., size, ply & psi(kPa)	Six 480/80R46;***;14(95)	Six 480/80R46;***;13(90)
<b>Ballast</b> - Liquid (total)	None	None
- Cast Iron (total)	1270 lb (576 kg)	None
<b>Height of Drawbar</b>	22.5 in (570 mm)	23.0 in (585 mm)
<b>Static Weight with operator</b> - Rear	21190 lb (9612 kg)	16935 lb (7682 kg)
- Front	26225 lb (11895 kg)	24955 lb (11319 kg)
- Total	47415 lb (21507 kg)	41890 lb (19001 kg)

**Clutch** wet multiple disc hydraulically actuated by foot pedal **Brakes** wet multiple disc hydraulically actuated foot pedal **Steering** hydrostatic and articulated **Power take-off** 1000 rpm at 1895 engine rpm **Unladen tractor mass** 41715 lb (18922 kg)

**REPAIRS AND ADJUSTMENTS:** No repairs or adjustments.

**NOTE 1.** The engine on this model operates in a derated mode when the PTO is engaged. This run was done with the field cruise system engaged.

**NOTE 2.** The manufacturer declares that the average time between active regenerations is 15 hours, while operated in Auto Filter Cleaning Mode, at rated speed, full PTO load, under steady state conditions.

**NOTE 3.** The 9460R engine has an electronic control system which provides a vehicle protection system to avoid overloading the drive train. This system provides four different engine power levels. At 2100 rpm the engine produces up to 385 hp when the transmission is in forward gears 1 through 3. The engine produces 410 hp in gear 4 and 435 hp in gear 5. The engine produces 460 hp at 2100 rpm for all other gears.

**REMARKS:** All test results were determined from observed data obtained in accordance with official OECD, SAE and Nebraska test procedures. For the maximum power tests the fuel temperature at the primary fuel filter was maintained at 102°F (39°C). This tractor did not meet the manufacturer's remote hydraulic flow claim of 37 gpm (140 lpm), from a single outlet, with the manual transmission. 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. **2040**, Nebraska Summary 831, February 22, 2013.

Roger M. Hoy  
Director

M.R. Riley  
P.J. Jasa  
J.D. Luck  
Board of Tractor Test Engineers

**DRAWBAR PERFORMANCE**  
**(Unballasted at 1800 RPM)**  
**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)	Temp. °F(°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)	
254.47 (189.76)	43377 (192.95)	2.20 (3.54)	2140	10.0	1st Gear 0.560 (0.341)	12.58 (2.48)	187 (86)	46 (8)	28.92 (97.93)
292.55 (218.15)	41141 (183.00)	2.67 (4.29)	2067	8.1	2nd Gear 0.510 (0.310)	13.82 (2.72)	187 (86)	60 (16)	28.95 (98.04)
316.97 (236.36)	40825 (181.60)	2.91 (4.68)	2008	6.8	3rd Gear 0.475 (0.289)	14.83 (2.92)	187 (86)	53 (12)	28.93 (97.97)
345.19 (257.41)	39733 (176.74)	3.26 (5.24)	2001	6.3	4th Gear 0.469 (0.285)	15.02 (2.96)	188 (87)	57 (14)	28.95 (98.04)
371.56 (277.07)	38927 (173.16)	3.58 (5.75)	1994	6.2	5th Gear 0.458 (0.278)	15.40 (3.03)	190 (88)	62 (17)	28.96 (98.07)
399.90 (298.21)	38329 (170.50)	3.92 (6.30)	1945	6.0	6th Gear 0.450 (0.274)	15.66 (3.08)	192 (89)	64 (18)	28.95 (98.04)
410.68 (306.24)	37022 (164.68)	4.16 (6.69)	1860	5.5	7th Gear 0.437 (0.266)	16.14 (3.18)	197 (92)	65 (18)	28.94 (98.00)
414.76 (309.28)	34459 (153.28)	4.51 (7.26)	1800	4.4	8th Gear 0.428 (0.260)	16.47 (3.24)	199 (93)	68 (20)	28.81 (97.56)
416.88 (310.87)	30944 (137.64)	5.05 (8.13)	1800	3.6	9th Gear 0.422 (0.257)	16.71 (3.29)	199 (93)	64 (18)	28.81 (97.56)
415.11 (309.55)	27543 (122.52)	5.65 (9.09)	1800	3.1	10th Gear 0.423 (0.257)	16.68 (3.29)	202 (94)	64 (18)	28.79 (97.49)
416.26 (310.41)	24936 (110.92)	6.26 (10.07)	1801	2.8	11th Gear 0.420 (0.256)	16.78 (3.30)	203 (95)	63 (17)	28.79 (97.49)
420.77 (313.76)	22574 (100.41)	6.99 (11.25)	1799	2.4	12th Gear 0.418 (0.254)	16.86 (3.32)	200 (93)	64 (18)	28.79 (97.49)
413.99 (308.71)	20016 (89.03)	7.76 (12.48)	1800	2.1	13th Gear 0.426 (0.259)	16.54 (3.26)	203 (95)	64 (18)	28.80 (97.53)
418.27 (311.90)	18166 (80.80)	8.64 (13.90)	1800	2.0	14th Gear 0.419 (0.255)	16.82 (3.31)	206 (97)	64 (18)	28.80 (97.53)

**Lugging ability in 11th gear**

Crankshaft speed rpm	2100	1999	1897	1799	1700	1600	1300	1102
Pull-lbs (kN)	18664 (83.02)	21755 (96.77)	23622 (105.08)	24973 (111.09)	26095 (116.08)	26852 (119.44)	25815 (114.83)	24406 (108.56)
Increase in pull%	0	17	26	34	40	44	38	31
Power-Hp (kW)	366.64 (273.40)	406.18 (302.89)	416.92 (310.90)	417.37 (311.23)	411.70 (307.00)	397.75 (296.60)	311.45 (232.25)	249.71 (186.21)
Speed-mpg (km/h)	7.37 (11.86)	7.00 (11.27)	6.62 (10.65)	6.27 (10.09)	5.92 (9.53)	5.55 (8.93)	4.52 (7.27)	3.84 (6.18)
Slip %	1.9	2.2	2.5	2.6	2.7	2.8	2.7	2.5

**DRAWBAR PERFORMANCE**  
**(Ballasted at 1800 RPM)**  
**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)	Temp. °F(°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
268.74 (200.40)	47654 (211.97)	2.12 (3.40)	2094	11.4	1st Gear 0.545 (0.331)	12.94 (2.55)	189 (87)	67 (19)	28.71 (97.22)
314.28 (234.36)	46319 (206.03)	2.55 (4.10)	1977	8.1	2nd Gear 0.491 (0.299)	14.35 (2.83)	191 (88)	69 (21)	28.71 (97.22)
332.71 (248.10)	45305 (201.52)	2.75 (4.43)	1916	7.3	3rd Gear 0.465 (0.283)	15.15 (2.99)	191 (88)	70 (21)	28.71 (97.22)
354.42 (264.29)	44428 (197.63)	2.99 (4.81)	1851	6.7	4th Gear 0.454 (0.276)	15.55 (3.06)	195 (91)	72 (22)	28.71 (97.22)
376.19 (280.52)	43506 (193.52)	3.24 (5.21)	1813	6.2	5th Gear 0.443 (0.270)	15.90 (3.13)	200 (93)	72 (22)	28.71 (97.22)
401.04 (299.05)	41335 (183.87)	3.64 (5.85)	1800	5.3	6th Gear 0.438 (0.266)	16.10 (3.17)	206 (97)	72 (22)	28.71 (97.22)
412.17 (307.35)	37987 (168.97)	4.07 (6.55)	1800	4.2	7th Gear 0.429 (0.261)	16.44 (3.24)	203 (95)	69 (21)	28.73 (97.29)
414.91 (309.40)	34177 (152.02)	4.55 (7.32)	1800	3.4	8th Gear 0.425 (0.259)	16.58 (3.27)	207 (97)	68 (20)	28.73 (97.29)
412.94 (307.93)	30506 (135.70)	5.08 (8.18)	1800	2.9	9th Gear 0.425 (0.259)	16.58 (3.27)	208 (98)	68 (20)	28.74 (97.33)
415.60 (309.91)	27563 (122.61)	5.65 (9.09)	1800	2.5	10th Gear 0.424 (0.258)	16.62 (3.27)	204 (96)	68 (20)	28.74 (97.33)
415.94 (310.17)	24822 (110.41)	6.29 (10.11)	1800	2.2	11th Gear 0.423 (0.257)	16.66 (3.28)	208 (98)	67 (19)	28.74 (97.33)
418.22 (311.86)	22399 (99.63)	7.00 (11.27)	1801	2.0	12th Gear 0.417 (0.254)	16.89 (3.33)	205 (96)	65 (18)	28.74 (97.33)
410.51 (306.11)	19851 (88.30)	7.76 (12.48)	1800	1.7	13th Gear 0.425 (0.259)	16.57 (3.26)	207 (97)	65 (18)	28.74 (97.33)
416.21 (310.36)	18015 (80.13)	8.67 (13.94)	1800	1.5	14th Gear 0.422 (0.257)	16.69 (3.29)	208 (98)	65 (18)	28.73 (97.29)

## HYDRAULIC PERFORMANCE

CATEGORY: 4N/4

Quick Attach: Yes

OECD Static test

	<u>Category 4N</u>	<u>lift cylinders</u>
Maximum force exerted through whole range:	15694 lbs(69.8 kN)	(1 x 90 mm and 1x100 mm)
	20935 lbs(93.1kN)	(2 x 110 mm)
	<u>Category 4</u>	
	15959 lbs(71.0 kN)	(1 x 90 mm and 1x100 mm)
	21123 lbs(94.0 kN)	(2 x 110 mm)

### 18 Speed Powershift transmission

#### High flow pump      Base pump three outlet sets combined

i) Sustained pressure at compensator cutoff:	2882 psi (199 bar)	2938 psi (203 bar)
ii) Pump delivery rate at minimum pressure and rated engine speed:	52.2 GPM(197.6 l/min)	32.0 GPM (121.1 l/min)
Combined flow:	84.2 GPM (318.7 l/min)	
iii) Pump delivery rate at maximum hydraulic power:	52.6 GPM(199.3 l/min)	31.5 GPM(119.2 l/min)
Delivery pressure:	2449 psi (169 bar)	2765 psi (191 bar)
Power:	75.2 HP (56.1 kW)	50.8 HP (37.9 kW)

	<u>single outlet set</u>	
i) Sustained pressure at compensator cutoff:	2880 psi (199 bar)	2938 psi (203 bar)
ii) Pump delivery rate at minimum pressure and rated engine speed:	37.1 GPM(140.4 l/min)	31.8 GPM (120.2 l/min)
iii) Pump delivery rate at maximum hydraulic power:	34.2 GPM(129.0 l/min)	31.5 GPM(119.2 l/min)
Delivery pressure:	2185 psi (151 bar)	2414 psi (166 bar)
Power:	43.6 HP (32.5 kW)	44.3 HP (33.1 kW)

### 24 speed manual shift transmission

#### three outlet sets combined

i) Sustained pressure at compensator cutoff:	2921 psi (201 bar)
ii) Pump delivery rate at minimum pressure and rated engine speed:	46.6 GPM(176.5 l/min)
iii) Pump delivery rate at maximum hydraulic power:	45.3 GPM(171.6 l/min)
Delivery pressure:	2602 psi (179 bar)
Power:	68.8 HP (51.3 kW)

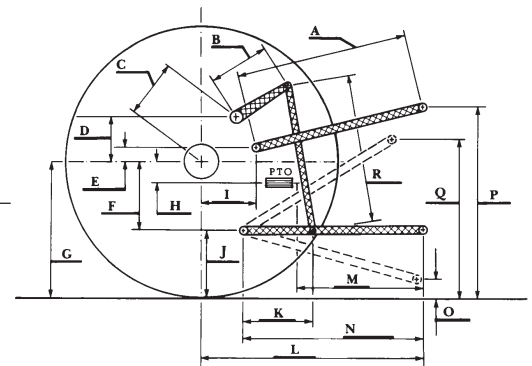
	<u>single outlet set</u>
i) Sustained pressure at compensator cutoff:	2931 psi (202 bar)
ii) Pump delivery rate at minimum pressure and rated engine speed:	36.2 GPM (136.9 l/min)
iii) Pump delivery rate at maximum hydraulic power:	35.4 GPM (133.9 l/min)
Delivery pressure:	2194 psi (151 bar)
Power:	45.3 HP (33.8 kW)

### Category 4N

	inch	mm	Category 4	inch	mm
A	32.1	815	31.5	800	
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	37.6	955	37.6	955	
H	4.2	106	4.2	106	
I	18.7	474	18.7	474	
J	23.8	605	23.8	605	
K	30.9	785	30.9	785	
L	52.8	1342	52.8	1342	
*L'	58.7	1491	59.6	1515	
M	34.5	877	35.5	901	
N	45.6	1159	45.6	1159	
O	9.0	230	9.0	230	
P	50.8	1290	50.8	1291	
Q	39.4	1000	39.8	1010	
R	48.2	1225	48.0	1220	

\*L' to Quick Attach ends

### HITCH DIMENSIONS AS TESTED—NO LOAD



JOHN DEERE 9460R DIESEL