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Test 1694: White 6124 Diesel 32-Speed

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NEBRASKA OECD TRACTOR TEST 1694—SUMMARY 180

WHITE 6124 DIESEL

32 SPEED

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

Dates of Test: May 30 to June 16, 1995

Manufacturer: AGCO Corporation, Duluth,
Georgia 30136

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
MAXIMUM POWER AND FUEL CONSUMPTION					
Rated Engine Speed—(PTO speed—1052 rpm)					
124.94 (93.17)	2200	7.26 (27.49)	0.405 (0.247)	17.20 (3.39)	
Standard Power Take-off Speed (1000 rpm)					
124.05 (92.50)	2090	7.05 (24.68)	0.396 (0.241)	17.60 (3.47)	

VARYING POWER AND FUEL CONSUMPTION

124.94 (93.17)	2200	7.26 (27.49)	0.405 (0.247)	17.20 (3.39)	Air temperature
107.73 (80.33)	2231	6.50 (24.60)	0.421 (0.256)	16.57 (3.27)	75°F (24°C)
81.48 (60.76)	2247	5.34 (20.20)	0.457 (0.278)	15.26 (3.01)	Relative humidity
54.83 (40.89)	2280	4.39 (16.61)	0.558 (0.339)	12.49 (2.46)	59%
27.65 (20.62)	2299	3.27 (12.38)	0.825 (0.502)	8.46 (1.67)	Barometer
0.83 (0.62)	2332	2.24 (8.47)	18.359 (11.168)	0.37 (0.07)	28.91"Hg (97.90 kPa)

Maximum Torque 375 lb.-ft. (509Nm) at 1399 rpm
Maximum Torque Rise 25.7%
Torque rise at 1799 rpm 16%

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 Consumption lb/hp.hr (kg/kW.h)	Hp.hr/gal (kW.h/l)	Temp.°F (°C) cooling med	Air dry bulb	Barom. inch Hg (kPa)
Maximum Power—13th (A1H) Gear									
112.65 (84.00)	8627 (38.37)	4.90 (7.88)	2199	3.66	0.450 (0.274)	15.50 (3.05)	182 (83)	71 (22)	28.83 (97.63)
75% of Pull at Maximum Power—13th (A1H) Gear									
86.87 (64.78)	6471 (28.78)	5.03 (8.10)	2237	2.71	0.480 (0.292)	14.51 (2.86)	181 (83)	72 (22)	28.82 (97.60)
50% of Pull at Maximum Power—13th (A1H) Gear									
59.18 (44.13)	4309 (19.17)	5.15 (8.29)	2273	1.82	0.565 (0.344)	12.34 (2.43)	172 (78)	72 (22)	28.82 (97.60)
75% of Pull at Reduced Engine Speed—18th (C1H) Gear									
86.83 (64.73)	6472 (28.79)	5.03 (8.10)	1619	2.71	0.425 (0.259)	16.40 (3.23)	186 (86)	72 (22)	28.82 (97.60)
50% of Pull at Reduced Engine Speed—18th (C1H) Gear									
59.16 (44.11)	4314 (19.19)	5.14 (8.28)	1641	1.91	0.473 (0.288)	14.75 (2.91)	173 (78)	72 (22)	28.82 (97.60)

FUEL OIL and TIME: Fuel No. 2 Diesel **Cetane No. 50.6 Specific gravity converted to 60°/60° F (15°/15°C)** 0.8374 **Fuel weight** 6.972 lbs/gal (0.836 kg/l) **Oil SAE 15W-40 API service classification** CD-II, SG **To motor** 3.656 gal (13.839 l) **Drained from motor** 3.189 gal (12.073 l) **Transmission and hydraulic lubricant** AGCO Power Fluid 821XL **Front axle lubricant** AGCO Gear Lube 715 SAE 80W-90 **Total time engine was operated** 27.0 hours.

ENGINE: Make Cummins Diesel **Type** six cylinder vertical with turbocharger **Serial No.** 45044533 **Crankshaft** lengthwise **Rated engine speed** 2200 **Bore and stroke** (as specified) 4.016" × 4.72" (102.0 mm × 120.0 mm) **Compression ratio** 17.5 to 1 **Displacement** 359 cu in (5880 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 and final drive oil, radiator for transmission oil **Fuel filter** two paper elements **Muffler** underhood **Exhaust** vertical **Cooling medium temperature control** one thermostat.

ENGINE OPERATING PARAMETERS: **Fuel rate:** 50.5-55.8 lb/h (22.9-25.3 kg/h) **High idle:** 2325-2425 rpm **Turbo boost** nominal 10.3 psi (71 kPa) as measured 14.0 psi (97 kPa)

CHASSIS: **Type** front wheel assist **Serial No.** 62551ML **Tread width** rear 61.5" (1562 mm) to 127.5" (3239 mm) front 59.7" (1516 mm) to 91.4" (2322 mm) **Wheel base** 106.0" (2692 mm) **Hydraulic control system** direct engine drive **Transmission** selective gear fixed ratio with partial (4) range operator controlled powershift **Nominal travel speeds mph (km/h)** first 1.53 (2.46) second 1.79 (2.88) third 2.11 (3.40) fourth 2.32 (3.73) fifth 2.47 (3.97) sixth 2.72 (4.37) seventh 3.20 (5.15) eighth 3.31 (5.33) ninth 3.75 (6.03) tenth 3.88 (6.24) eleventh 4.51 (7.25) twelfth 4.57 (7.36) thirteenth 5.03 (8.10) fourteenth 5.28 (8.49) fifteenth 5.36 (8.62) sixteenth 5.88 (9.47) seventeenth 6.23 (10.02) eighteenth 6.95 (11.18) nineteenth 7.29 (11.73) twentieth 7.64 (12.29) twenty-first 8.13 (13.09) twenty-second 8.94 (14.38) twenty-third 10.54 (16.97) twenty-fourth 10.91 (17.55) twenty-fifth 12.35 (19.87) twenty-sixth 12.76 (20.54) twenty-seventh 14.85 (23.89) twenty-eighth 15.07 (24.25) twenty-ninth 17.37 (27.96) thirtieth 17.64 (28.38) thirty-first 20.51 (33.00) thirty-second 24.00 (38.63) reverse 1.53 (2.46), 1.79 (2.88), 2.11 (3.40), 2.32 (3.73), 2.47 (3.97), 2.72 (4.37), 3.20 (5.15), 3.31 (5.33),

DRAWBAR PERFORMANCE
(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 Consumption lb/hp.hr (kg/kW.h)	Temp.°F (°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
6th (B2L) Gear								
92.10 (68.68)	14542 (64.68)	2.38 (3.82)	2231	14.58	0.515 (0.313)	178 (81)	62 (17)	28.85 (97.70)
7th (C2L) Gear								
107.38 (80.07)	13573 (60.37)	2.97 (4.77)	2197	8.10	0.468 (0.285)	172 (78)	62 (17)	28.85 (97.70)
8th (A3L) Gear								
108.41 (80.84)	13146 (58.48)	3.09 (4.98)	2198	7.47	0.462 (0.281)	175 (79)	63 (17)	28.86 (97.73)
9th (D2L) Gear								
110.61 (82.48)	11659 (51.86)	3.56 (5.73)	2197	6.02	0.459 (0.279)	185 (85)	70 (21)	28.84 (97.66)
10th (B3L) Gear								
111.65 (83.26)	11318 (50.34)	3.70 (5.95)	2198	5.36	0.451 (0.275)	185 (85)	63 (17)	28.86 (97.73)
11th (A4L) Gear								
111.47 (83.12)	9600 (42.70)	4.35 (7.01)	2197	4.43	0.452 (0.275)	178 (81)	70 (21)	28.84 (97.66)
12th (C3L) Gear								
110.61 (82.48)	9345 (41.57)	4.44 (7.14)	2202	4.09	0.458 (0.278)	174 (79)	69 (21)	28.84 (97.66)
13th (A1H) Gear								
112.65 (84.00)	8627 (38.37)	4.90 (7.88)	2199	3.66	0.450 (0.274)	182 (83)	71 (22)	28.83 (97.63)
14th (B4L) Gear								
110.89 (82.69)	8072 (35.91)	5.15 (8.29)	2201	3.49	0.456 (0.278)	179 (81)	70 (21)	28.84 (97.66)
15th (D3L) Gear								
110.56 (82.44)	7926 (35.26)	5.23 (8.42)	2202	3.41	0.457 (0.278)	190 (88)	69 (21)	28.84 (97.66)
16th (B1H) Gear								
112.05 (83.56)	7291 (32.43)	5.76 (9.28)	2197	3.06	0.454 (0.276)	182 (83)	64 (18)	28.87 (97.77)
17th (C4L) Gear								
109.12 (81.37)	6707 (29.83)	6.10 (9.82)	2194	2.71	0.463 (0.282)	190 (88)	65 (18)	28.88 (97.80)
18th (C1H) Gear								
110.94 (82.73)	6094 (27.11)	6.83 (10.99)	2195	2.71	0.455 (0.277)	185 (85)	64 (18)	28.87 (97.77)
19th (D4L) Gear								
107.47 (80.14)	5631 (25.05)	7.16 (11.52)	2191	2.36	0.468 (0.284)	185 (85)	67 (19)	28.86 (97.73)
20th (A2H) Gear								
111.21 (82.93)	5557 (24.72)	7.50 (12.08)	2194	2.44	0.453 (0.275)	185 (85)	69 (21)	28.84 (97.66)
21st (D1L) Gear								
110.22 (82.19)	5162 (22.96)	8.01 (12.89)	2190	2.00	0.464 (0.282)	177 (81)	69 (21)	28.84 (97.66)

TIRES, BALLAST AND WEIGHT

	With Ballast	Without Ballast
Rear Tires —No., size, ply & psi (kPa)	Four 18.4R42; **, 20 (140)	Two 18.4R42; **, 20 (140)
Ballast —Duals (total)	1680 lb (762 kg)	None
—Cast Iron (total)	None	None
Front Tires —No., size, ply & psi (kPa)	Two 14.9R30; ***, 24 (165)	Two 14.9R30; ***, 24 (165)
Ballast —Test equip. (total)	94 lb (43 kg)	None
—Cast Iron (total)	616 lb (279 kg)	None
Height of Drawbar	25.0 in (635 mm)	24.0 in (610 mm)
Static Weight with Operator —Rear	11300 lb (5125 kg)	9640 lb (4372 kg)
—Front	6014 lb (2728 kg)	5284 lb (2397 kg)
—Total	17314 lb (7853 kg)	14924 lb (6769 kg)

3.75 (6.03), 3.88 (6.24), 4.51 (7.25), 4.57 (7.36), 5.03 (8.10), 5.28 (8.49), 5.36 (8.62), 5.88 (9.47), 6.23 (10.02), 6.95 (11.18), 7.29 (11.73), 7.64 (12.29), 8.13 (13.09), 8.94 (14.38), 10.54 (16.97), 10.91 (17.55), 12.35 (19.87), 12.76 (20.54), 14.85 (23.89), 15.07 (24.25), 17.37 (27.96), 17.64 (28.38), 20.51 (33.00), 24.00 (38.63) **Clutch** dual dry discs actuated by foot pedal **Brakes** wet multiple disc hydraulically actuated by two foot pedals which can be locked together **Steering** hydrostatic **Power take-off** 540 rpm at 1992 engine rpm and 1000 rpm at 2090 engine rpm **Unladen tractor mass** 14860 lb (6741 kg)

REPAIRS AND ADJUSTMENTS: No repairs or adjustments

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 injection pump return was maintained at 143° F (62°C). The performance results on this summary were taken from OECD tests conducted under the Code II Restricted Standard Test Code procedure.

We, the undersigned, certify that this is a true and correct report of official Tractor Test No. **1694**, Summary 180, July 12, 1995.

LOUIS I. LEVITICUS
Engineer-in-Charge

L.L. BASHFORD
R.D. GRISSO
M.F. KOCHER
Board of Tractor Test Engineers

DRAWBAR PERFORMANCE
(Ballasted—Front Drive Disengaged)
FUEL CONSUMPTION CHARACTERISTICS

Power Hp (kW)	Drawbar pull lbs (kN)	Speed mph (km/h)	Crank- shaft speed rpm	Slip %	Fuel Consumption		Temp. °F (°C)		Barom. inch Hg (kPa)
					lb./hp.hr (kg/kW.h)	Hp.hr/gal (kW.h/l)	cool- ing med	Air dry bulb	
Maximum Power—13th (A1H) Gear									
110.34 (82.28)	8474 (37.69)	4.88 (7.86)	2195	3.79	0.453 (0.276)	15.38 (3.03)	186 (85)	77 (25)	28.48 (96.44)
75% of Pull at Maximum Power—13th (A1H) Gear									
85.61 (63.84)	6360 (28.29)	5.05 (8.12)	2242	2.74	0.486 (0.295)	14.36 (2.83)	185 (85)	81 (27)	28.49 (96.48)
50% of Pull at Maximum Power—13th (A1H) Gear									
58.32 (43.49)	4244 (18.88)	5.15 (8.29)	2268	1.86	0.569 (0.346)	12.25 (2.41)	184 (84)	81 (27)	28.49 (96.48)
75% of Pull at Reduced Engine Speed—18th (C1H) Gear									
85.58 (63.82)	6360 (28.29)	5.05 (8.12)	1622	2.66	0.436 (0.265)	16.00 (3.15)	185 (85)	81 (27)	28.49 (96.48)
50% of Pull at Reduced Engine Speed—18th (C1H) Gear									
58.33 (43.50)	4242 (18.87)	5.16 (8.30)	1643	1.77	0.476 (0.290)	14.64 (2.88)	184 (84)	81 (27)	28.49 (96.48)
MAXIMUM POWER IN SELECTED GEARS									
6th (B2L) Gear									
95.35 (71.10)	15052 (66.95)	2.38 (3.82)	2225	14.41	0.510 (0.310)	13.66 (2.69)	174 (79)	69 (21)	28.46 (96.38)
7th (C2L) Gear									
108.25 (80.72)	13514 (60.11)	3.00 (4.83)	2198	7.10	0.466 (0.283)	14.96 (2.95)	179 (82)	71 (22)	28.47 (96.41)
8th (A3L) Gear									
108.94 (81.24)	13117 (58.35)	3.11 (5.01)	2198	6.94	0.462 (0.281)	15.09 (2.97)	191 (88)	72 (22)	28.48 (96.44)
9th (D2L) Gear									
109.12 (81.37)	11466 (51.00)	3.57 (5.74)	2196	5.72	0.461 (0.280)	15.12 (2.98)	185 (85)	73 (23)	28.48 (96.44)
10th (B3L) Gear									
109.92 (81.96)	11113 (49.43)	3.71 (5.97)	2198	5.39	0.458 (0.279)	15.23 (3.00)	184 (84)	73 (23)	28.48 (96.44)
11th (A4L) Gear									
110.41 (82.34)	9508 (42.29)	4.35 (7.01)	2197	4.30	0.454 (0.276)	15.36 (3.03)	188 (86)	74 (23)	28.48 (96.44)
12th (C3L) Gear									
109.25 (81.47)	9271 (41.24)	4.42 (7.11)	2194	4.38	0.461 (0.281)	15.11 (2.98)	185 (85)	75 (24)	28.48 (96.44)
13th (A1H) Gear									
110.34 (82.28)	8474 (37.69)	4.88 (7.86)	2195	3.79	0.453 (0.276)	15.38 (3.03)	186 (85)	77 (25)	28.48 (96.44)
14th (B4L) Gear									
109.53 (81.68)	8000 (35.58)	5.13 (8.26)	2193	3.53	0.460 (0.280)	15.14 (2.98)	186 (85)	74 (23)	28.48 (96.44)
15th (D3L) Gear									
109.04 (81.31)	7844 (34.89)	5.21 (8.39)	2195	3.53	0.462 (0.281)	15.09 (2.97)	185 (85)	76 (24)	28.48 (96.44)
16th (B1H) Gear									
110.23 (82.20)	7177 (31.92)	5.76 (9.27)	2196	3.18	0.452 (0.275)	15.41 (3.04)	186 (85)	78 (26)	28.48 (96.44)
17th (C4L) Gear									
106.88 (79.70)	6573 (29.24)	6.10 (9.81)	2190	2.83	0.470 (0.286)	14.84 (2.92)	185 (85)	79 (26)	28.48 (96.44)
18th (C1H) Gear									
108.83 (81.15)	5959 (26.50)	6.85 (11.02)	2198	2.57	0.459 (0.279)	15.20 (3.00)	184 (84)	80 (27)	28.48 (96.44)
19th (D4L) Gear									
105.54 (78.70)	5503 (24.48)	7.19 (11.57)	2197	2.39	0.475 (0.289)	14.68 (2.89)	186 (86)	79 (26)	28.48 (96.44)
20th (A2H) Gear									
109.88 (81.94)	5472 (23.34)	7.53 (12.12)	2195	2.30	0.456 (0.277)	15.29 (3.01)	187 (86)	80 (27)	28.48 (96.44)
21st (D1H) Gear									
108.82 (81.14)	5066 (22.53)	8.05 (12.96)	2200	2.22	0.461 (0.281)	15.12 (2.98)	189 (87)	81 (27)	28.49 (96.48)

DRAWBAR PERFORMANCE
(Ballasted—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 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)
4th (A2L) Gear									
97.15 (72.45)	17736 (78.89)	2.05 (3.31)	2221	13.49	0.506 (0.308)	13.79 (2.72)	174 (79)	70 (21)	28.73 (97.29)
5th (D1L) Gear									
102.85 (76.70)	17171 (76.38)	2.25 (3.62)	2213	10.83	0.485 (0.295)	14.36 (2.83)	172 (78)	70 (21)	28.70 (97.19)
6th (B2L) Gear									
107.96 (80.51)	15883 (70.65)	2.55 (4.10)	2200	7.46	0.467 (0.284)	14.91 (2.94)	175 (79)	70 (21)	28.71 (97.22)
7th (C2L) Gear									
108.73 (81.08)	13258 (58.97)	3.08 (4.95)	2200	5.42	0.463 (0.282)	15.06 (2.97)	175 (79)	74 (23)	28.68 (97.12)
8th (A3L) Gear									
110.55 (82.43)	13042 (58.01)	3.18 (5.12)	2198	5.26	0.457 (0.278)	15.26 (3.01)	188 (87)	75 (24)	28.67 (97.09)
9th (D2L) Gear									
110.49 (82.39)	11397 (50.70)	3.64 (5.85)	2197	4.16	0.457 (0.278)	15.26 (3.01)	185 (85)	74 (23)	28.68 (97.12)
10th (B3L) Gear									
110.52 (82.41)	11018 (49.01)	3.76 (6.05)	2196	4.24	0.455 (0.277)	15.34 (3.02)	185 (85)	76 (24)	28.66 (97.05)
11th (A4L) Gear									
111.63 (83.25)	9499 (42.25)	4.41 (7.09)	2194	3.38	0.452 (0.275)	15.41 (3.04)	187 (86)	77 (25)	28.66 (97.05)
12th (C3L) Gear									
109.50 (81.66)	9161 (40.75)	4.48 (7.21)	2196	3.29	0.458 (0.279)	15.22 (3.00)	186 (85)	78 (26)	28.65 (97.02)
13th (A1H) Gear									
111.75 (83.34)	8498 (37.80)	4.93 (7.94)	2190	3.03	0.450 (0.274)	15.50 (3.05)	185 (85)	79 (26)	28.62 (96.92)
14th (B4L) Gear									
109.96 (81.99)	7929 (35.27)	5.20 (8.37)	2198	2.94	0.459 (0.279)	15.17 (2.99)	186 (86)	77 (25)	28.66 (97.05)
15th (D3L) Gear									
109.28 (81.49)	7770 (34.56)	5.27 (8.49)	2195	2.68	0.459 (0.279)	15.20 (2.99)	185 (85)	78 (26)	28.65 (97.02)
16th (B1H) Gear									
111.70 (83.29)	7200 (32.02)	5.82 (9.36)	2196	2.59	0.451 (0.274)	15.46 (3.05)	186 (85)	79 (26)	28.64 (96.99)
17th (C4L) Gear									
107.60 (80.24)	6541 (29.10)	6.17 (9.93)	2196	2.24	0.466 (0.284)	14.96 (2.95)	186 (86)	79 (26)	28.62 (96.92)
18th (C1H) Gear									
109.23 (81.45)	5940 (26.42)	6.90 (11.10)	2195	2.06	0.460 (0.280)	15.16 (2.99)	186 (85)	79 (26)	28.63 (96.95)
19th (D4L) Gear									
106.83 (79.67)	5530 (24.60)	7.24 (11.66)	2195	1.88	0.473 (0.287)	14.75 (2.91)	186 (86)	80 (27)	28.61 (96.88)
20th (A2H) Gear									
109.93 (81.97)	5427 (24.14)	7.60 (12.22)	2196	1.79	0.456 (0.277)	15.29 (3.01)	186 (86)	80 (27)	28.61 (96.88)
21st (D1H) Gear									
108.72 (81.07)	5030 (22.37)	8.11 (13.04)	2196	1.70	0.464 (0.283)	15.01 (2.96)	186 (85)	80 (27)	28.61 (96.88)

TRACTOR SOUND LEVEL WITH CAB

dB(A)

At 75% load in 12th (C3L) gear

76.0

Bystander

—

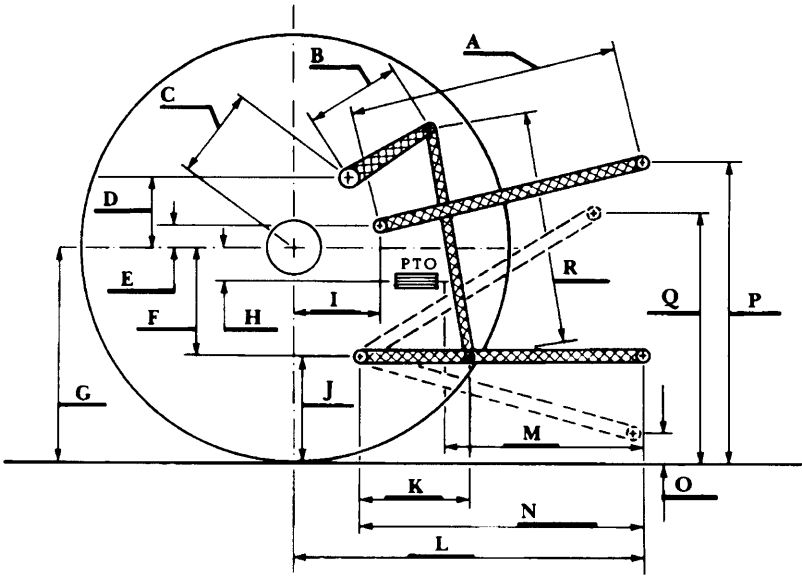
THREE POINT HITCH PERFORMANCE (OECD Static Test)

CATEGORY: III

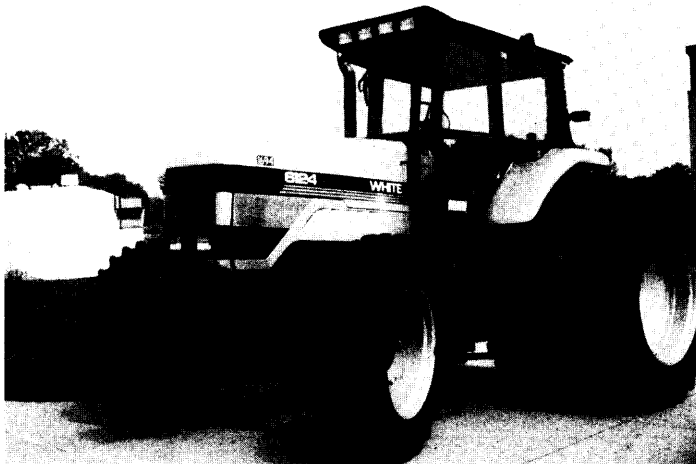
Quick Attach: None

Maximum Force Exerted Through Whole Range:	12087 lbs	(53.8 kN)
i) Opening pressure of relief valve:	NA	
Sustained pressure with pump stalled:	2860 psi	(197 bar)
ii) Pump delivery rate at minimum pressure and rated engine speed:	31.5 GPM	(119.2 l/min)
iii) Pump delivery rate at maximum hydraulic power:	24.7 GPM	(94.3 l/min)
Delivery pressure:	2500 psi	(172 bar)
Power:	36.3 HP	(27.1 kW)

HITCH DIMENSIONS AS TESTED—NO LOAD



	inch	mm
A	30.5	775
B	14.3	362
C	18.5	470
D	17.0	432
E	9.3	237
F	11.8	300
G	35.0	889
H	3.0	76
I	16.9	428
J	23.2	589
K	23.6	600
L	47.2	1199
M	25.5	648
N	38.4	975
O	9.0	229
P	51.4	1306
Q	34.2	870
R	33.3	845



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