**CATERPILLAR 438c Loader Backhoe**

 

**Selected Dimensions**

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| Backhoe |
| J. Load Height - Std | 12.1 ft in | 3684 mm |
| K. Reach From Swivel - Std | 18.7 ft in | 5711 mm |
| L. Dig Depth - Std | 16 ft in | 4873 mm |
| M. Reach at Load Height - Std | 5.4 ft in | 1660 mm |
| Dimensions |
| A. Transport Length | 18.8 ft in | 5740 mm |
| B. Transport Width | 7.9 ft in | 2396 mm |
| C. Transport Height | 12.4 ft in | 3765 mm |
| D. Wheelbase | 6.9 ft in | 2100 mm |
| E. Ground Clearance | 1.1 ft in | 335 mm |
| F. Height to Top of Cab | 9.5 ft in | 2900 mm |
| Loader |
| G. Clearance at Max Dump Height | 8.7 ft in | 2655 mm |
| H. Reach at Max Dump Height | 2.6 ft in | 780 mm |
| I. Dig Depth | 1.6 in | 40 mm |

**Specification**

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| Engine |
| Make | Caterpillar |
| Model | 3054 |
| Net Power | 85 hp | 63.4 kw |
| Gross Power | 89 hp | 66.4 kw |
| Displacement | 244.1 cu in | 4 L |
| Power Measured @ | 2200 rpm |
| Number of Cylinders | 4 |
| Net Torque Rise | 24.1 % |
| Aspiration | Turbocharged |
| Operational |
| Operating Weight 4wd | 16666.9 lb | 7560 kg |
| Fuel Capacity | 33.8 gal | 128 L |
| Hydraulic System Fluid Capacity | 20.9 gal | 79 L |
| Oil System Fluid Capacity | 1.9 gal | 7.3 L |
| Cooling System Fluid Capacity | 5.7 gal | 21.6 L |
| Transmission Fluid Capacity | 4.8 gal | 18 L |
| Front Axle Fluid Capacity | 2 gal | 7.5 L |
| Rear Axle Fluid Capacity | 6.3 gal | 24 L |
| Turning Radius | 26.5 ft in | 8090 mm |
| Tire Size Front - 2wd / 4wd | 335/80 x R18 |
| Rear Tires Size 2wd/4wd | 16.9 x R28 |
| Operating Voltage | 12 V |
| Alternator Supplied Amperage | 52 amps |
| Transmission |
| Type | Power Shuttle |
| Number of Forward Gears | 4 |
| Number of Reverse Gears | 4 |
| Max Speed - Forward | 19.6 mph | 31.5 km/h |
| Max Speed Reverse | 19.6 mph | 31.5 km/h |
| Backhoe |
| Dig Depth - Std | 16 ft in | 4873 mm |
| Dig Depth - Ext | 19.4 ft in | 5924 mm |
| Reach From Swivel - Std | 18.7 ft in | 5711 mm |
| Reach From Swivel - Ext | 22.2 ft in | 6756 mm |
| Load Height - Std | 12.1 ft in | 3684 mm |
| Load Height - Ext | 14.3 ft in | 4344 mm |
| Reach at Load Height - Std | 5.4 ft in | 1660 mm |
| Reach at Load Height - Ext | 8.5 ft in | 2596 mm |
| Loader |
| Bucket Capacity | 1.3 yd3 | 1 m3 |
| Bucket Width | 94.3 in | 2396 mm |
| Bucket Breakout Force | 11330.4 lb | 50.4 kN |
| Clearance at Max Dump Height | 8.7 ft in | 2655 mm |
| Reach at Max Dump Height | 2.6 ft in | 780 mm |
| Dig Depth | 1.6 in | 40 mm |
| Hydraulic |
| Pump Type | Piston |
| Pump Flow Capacity | 42.8 gal/min | 162 L/min |
| Relief Valve Pressure | 3000 psi | 20684.3 kPa |
| Dimensions |
| Transport Length | 18.8 ft in | 5740 mm |
| Transport Width | 7.9 ft in | 2396 mm |
| Transport Height | 12.4 ft in | 3765 mm |
| Height to Top of Cab | 9.5 ft in | 2900 mm |
| Wheelbase | 6.9 ft in | 2100 mm |
| Ground Clearance | 1.1 ft in | 335 mm |