

**Changes of structure or weight distribution of the loader can cause changes in control and steering response, and can cause failure of the loader parts.**

## LOADER SPECIFICATIONS (CONT'D)

### Performance

Rated Operating Capacity	3650 lb (1656 kg)
with 200 Pound Frame Mounted Counterweight Kit	3750 lb (1701 kg)
with 300 Pound Frame Mounted Counterweight Kit	3800 lb (1724 kg)
with 400 Pound Frame Mounted Counterweight Kit	3850 lb (1746 kg)
Tipping Load	10430 lb (4731 kg)
Operating Weight	12925 lb (5863 kg)
Breakout Force – Lift	7780 lb (3520 kg)
Breakout Force – Tilt	8733 lb (3961 kg)
Travel Speed:	
Low Range	0 – 6.5 mph (0 – 10,5 km/h)
High Range	0 – 11.4 mph (0 – 18,3 km/h)

### Engine

Make / Model	Bobcat Engine / 3,4L Bobcat Engine Tier 4
Fuel / Cooling	Diesel / Liquid
Horsepower:	
– ISO 9249 EEC / SAE J1349 Net	95.9 hp (71,5 kW) @ 2400 rpm
– ISO 14396 Gross	100.1 hp (74,6 kW) @ 2400 rpm
– SAE J1995 Gross	101.4 hp (75,6 kW) @ 2400 rpm
– Rated Power	100.0 hp (74,6 kW) @ 2400 rpm
Torque:	
– ISO 9249 EEC / SAE J1349 Net	262.4 ft-lb (355,8 N•m) @ 1600 rpm
– ISO 14396 Gross	276.9 ft-lb (375,4 N•m) @ 1600 rpm
– SAE J1995 Gross	280.5 ft-lb (380,3 N•m) @ 1600 rpm
– Rated Torque	276.6 ft-lb (375,0 N•m) @ 1600 rpm
Low Idle rpm	1050
High Idle rpm	2400
Number of Cylinders	4
Displacement	208.0 in <sup>3</sup> (3409 cm <sup>3</sup> )
Bore / Stroke	3.86 in / 4.45 in (98 mm / 113 mm)
Lubrication	Gear Pump Pressure System with Filter

Crankcase Ventilation	Closed Breathing
Air Cleaner	Dry replaceable paper cartridge with separate safety element
Ignition	Diesel – Compression
Air Induction	Turbo-Charged and Charged Air Cooled
Engine Coolant	Propylene Glycol / Water Mixture
Starting Aid	Air intake heater automatically activated as needed in RUN position

## LOADER SPECIFICATIONS (CONT'D)

### Drive System

Main Drive	Fully hydrostatic, rubber track drive
Transmission	Infinitely variable tandem hydrostatic piston pumps, driving two fully reversing hydrostatic drive motors
Tracks (Tension)	Automatic track tension system with hydraulic cylinder and spring

### Controls

Machine Steering	Direction and speed controlled by two hand operated steering handles or optional joystick(s)
Loader Hydraulics:	
– Lift and Tilt	Controlled by separate foot pedals or optional Selectable Joystick Controls (SJC)
– Front Auxiliary	Controlled by electrical switch on Right Hand steering handle or joystick
– Rear Auxiliary (Option)	Controlled by electrical switch on Left Hand steering handle or joystick
Auxiliary Pressure Release	Pressure relieved through quick couplers; Push couplers in, hold for 5 seconds
Engine	Hand operated speed control, additional foot operated speed control pedal with SJC option; key-type start switch or optional Keyless Start Panel or optional Deluxe Instrumentation Panel and function error shutdown
Service Brake	Two independent hydrostatic systems controlled by two hand operated steering handles or optional joystick(s)
Secondary Brake	One of the hydrostatic transmissions
Parking Brake (Standard)	Spring applied pressure release multi-disc brake activated by manually operated switch on left instrument panel

## LOADER SPECIFICATIONS (CONT'D)

### Hydraulic System

Pump Type	Engine driven, gear type
Pump Capacity – Standard-Flow	23.0 U.S. gpm (87,1 L/min)
Pump Capacity – High-Flow (Option)	36.6 U.S. gpm (138,2 L/min)

System Relief at Quick Couplers	3450 – 3550 psi (23,8 – 24,5 MPa) (238 – 245 bar)
Filter (Hydraulic / Hydrostatic)	Replaceable beta 10 micron = 200, drop in element
Filter (Charge)	Replaceable beta 10 micron = 200, spin-on element
Hydraulic Cylinders:	Double-acting; lift cylinders have cushioning feature on lower, tilt cylinders have cushioning feature on dump and rollback
Lift Cylinder (2):	
Bore Diameter	3.50 in (88,9 mm)
Rod Diameter	2.00 in (50,8 mm)
Stroke	27.51 in (698,75 mm)
Tilt Cylinder (2):	
Bore Diameter	3.25 in (82,6 mm)
Rod Diameter	1.50 in (38,1 mm)
Stroke	15.29 in (388,36 mm)
Control Valve – SCPA	3-Spool, open center, manually operated with spring detent for lift float; Electrically controlled auxiliary spool
Control Valve – SJC	3-Spool, open center with electric actuator controlled lift with float and tilt; Electrically controlled auxiliary spool
Fluid Lines	SAE Standard tubelines, hoses, and fittings
Fluid Type	BOBCAT FLUID, Hydraulic / Hydrostatic 6903117 – (Two – 2.5 U.S. gal) 6903118 – (5 U.S. gal) 6903119 – (55 U.S. gal)
Hydraulic Function Time:	
Raise Lift Arms	5.9 seconds
Lower Lift Arms	4.0 seconds
Bucket Dump	2.9 seconds
Bucket Rollback	2.3 seconds

## LOADER SPECIFICATIONS (CONT'D)

### Electrical System

Alternator	Belt driven, 120 amperes, open frame
Battery	12 volt, 1000 cold cranking amperes @ 0°F (-18°C), 186 minute reserve capacity @ 25 amperes

Starter	12 volt, gear type, 3.62 hp (2,7 kW)
Instrumentation	<p><b>Gauges:</b></p> <p>Engine Coolant Temperature and Fuel Level</p> <p><b>Warning lights:</b></p> <p>Fuel Level, Seat Belt, Engine Coolant Temperature, Engine Malfunction, Hydraulic System Malfunction, Diesel Exhaust Fluid (DEF) / AdBlue®, and General Warning</p> <p><b>Indicators:</b></p> <p>Diesel Exhaust Fluid (DEF) / AdBlue® Level, BICS™ Functions, Two-Speed, 3-Point Restraint, and Turn Signals</p> <p><b>Data Display:</b></p> <p>Operating Hours, Engine rpm, Speed Management Setting, Maintenance Clock Countdown, Battery Voltage, Service Codes, Engine Preheat Countdown, Lift and Tilt Compensation Setting, Steering Drift Compensation Setting, and Drive Response Setting</p> <p><b>Other:</b></p> <p>Audible Alarm, Lights, and Option / Accessory Switches</p> <p><b>Optional Deluxe Instrumentation Panel:</b></p> <p>*Additional displays for: Engine rpm, Engine Coolant Temperature, Engine Oil Pressure, System Voltage, Hydraulic Fluid Temperature, and Hydrostatic Charge Pressure</p> <p>*Additional Features Included: Keyless Start, Digital Clock, Job Clock, Password Lockout, Multiple-Language Display, Help Screens, Diagnostic Capability, and Engine / Hydraulic Systems Shutdown Function</p>

## Capacities

Fuel	32.6 U.S. gal (123,4 L)
Engine Oil with Filter Change	13.3 qt (12,6 L)
Engine Cooling System with Heater	3.8 U.S. gal (14,4 L)
Engine Cooling System without Heater	3.6 U.S. gal (13,6 L)
Hydraulic / Hydrostatic Reservoir	2.5 U.S. gal (9,5 L)
Hydraulic / Hydrostatic System	12.0 U.S. gal (45,4 L)

Diesel Exhaust Fluid (DEF) / AdBlue®	6.8 U.S. gal (25,7 L)
Hydrostatic Drive Motor (Each)	17.5 U.S. fl oz (517,5 mL)
Air Conditioning Refrigerant (R-134a)	1.5 lb (0,68 kg)

## LOADER SPECIFICATIONS (CONT'D)

### Tracks

Standard	17.7 in (450 mm) Rubber
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### Ground Pressure

Rubber Track – 450 mm (17.7 in)	4.8 psi (0,033 MPa) (0,33 bar)
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