



ENGINE			
Model	F5C E5454 C*A003		
Emissions Certification Tier 3			
Type Diese	Diesel 4-stroke, Turbo, D.I.		
Cylinders	4		
Bore/Stroke	3.9 x 4.1 in (99 x 104 mm)		
Displacement	195 in ³ (3.2 L)		
Fuel injection	Direct		
Fuel	#2 Diesel		
Fuel filter	In-line strainer		
Oil filtration	Spin on – full-flow		
Air intake Turbocha	arged w/o waste gate		
Cooling	Liquid		
Engine speeds High idle – no load Rated – full load Low idle	RPM 2675 +/- 75 2500 1075 +/- 75		
Horsepower @ 2500 RPM - Gross Net	90 hp (67 kW) 84 hp (63 kW)		
Peak torque @ 1400 RPM	251 lb·ft (340 N·m)		
Radiator: Core type Core size area Rows of tubes x columns Cap pressure	All aluminum 2.86 ft ² (0.266 m ²) 44 x 4 16 +/- 2 psi (1.10 +/- 0.14 bar)		
Fan: Diameter Ratio	20.4 in (518 mm) 0.96:1		
Water pump: Style Flow	Centrifugal 29 gpm (110 L/min)		
Engine lubrication pump Rotor pump w/ deep sump pan, plate cooler and pressurized under-piston nozzles			
Pump operating angle ratin Side to side Bucket up Bucket down	·		

LIFT GEOMETRY

Radial Lift

DRIVETRAIN Drive pump controls Mechanical Pump to engine ratio 1:1 Displacement 2.81 in ³ (46 cm ³)
Pump to engine ratio1:1Displacement2.81 in3 (46 cm3)
Pump to engine ratio1:1Displacement2.81 in3 (46 cm3)
Flow at rated engine RPM:
@ 100% efficiency 29.4 gpm (111 L/min)
Charge pressure: 360 +/- 10 psi (24.5 +/- 0.5 bar)
System relief pressure 5,220 psi (360 bar)
Drive pump controls Electro-hydraulic
Pump to engine ratio 1:1
Displacement 2.75 in ³ (46 cm ³)
Flow @ rated engine RPM:
@ 100% efficiency 28.8 gpm (109 L/min)
Charge pressure 362 psi (15 bar)
System relief pressure 5,220 psi (360 bar)
Drive motors:
Max. displacement 28.7 in ³ (470 cm ³)
Optional high speed 17.2 in ³ (282 cm ³) Speed @ high idle engine RPM
100% efficiency at rated engine RPM 241
Speed @ optional high speed RPM 355
Torque @ max. displacement and relief
pressure – calculated @ 5,003 psi (345 bar):
2,694 lb·ft (1 987 N·m)
Travel speed:
Low range 7.0 mph (11.3 kph)
High range – optional 10.5 mph (16.9 kph)
Final driveSingle-reduction chain drive
Drive chain:
Size ASA #100
Tensile strength30,000 lb (133.4 kN)
Axles:
Torque @ max. displacement and
relief pressure 6,623 lb-ft (8 980 N·m) Diameter 2.44 in (61.9 mm)
Length 15.6 in (398.7 mm)
Parking brake:
Type Spring-applied,
hydraulic release disc
Engagement Depress on/off brake button
on handle or instrument panel,
raise seat bar, get off seat or stop engine

ELECTRICAL

Alternator	120 amp
Starter	5.36 hp (4.0 kW)
Battery	12-volt low-maintenance
925	cold-cranking amps @ 0° F (-18° C°)

OPERATOR ENVIRONMENT

Enclosed Cab w/ Heater and AC; Fully sealed and pressurized - FSP; Glass door w/ wiper and washer; Sliding side windows - removable; Heater and air conditioner; AM/FM radio w/ 2 speakers; Keyless start ignition; Tilt ROPS/FOPS; Rear window w/ emergency escape; Deluxe cloth, air suspension seat, w/ 2 in (51 mm) retractable 3 point lap seat belt w/ heater and lumbar support; Hand and foot throttles; Alarm package - back-up and horn; Headliner; Dome Light; Top window; Cup holder; 12V Power plug socket; Foot rest; Seat pocket; Padded seat bar w/ integral armrests; Loader control lockout system; Electric parking brake control; Operator's compartment floor cleanout; Proportional auxiliary hydraulic control - on joystick; Advanced Instrument Cluster w/ digital hour meter, tachometer, Fuel level LCD bar graph w/

SKID STEER LOADER

TIER 3

alarm, diagnostic features and security lockout. Warning lights with alarms: Engine coolant temperature; Engine oil pressure; Engine malfunction; Hydraulic charge pressure; Hydraulic filter restriction; Hydraulic oil temperature: Critical system stop, Engine system, Hydraulic system, Electrical and diagnostic system. Warning alarms: Battery voltage - plus display; Oil service. Indicator light: Engine preheat; Parking brake; Seat bar reminder. **OPERATING WEIGHT**

Unit equipped w/ open cab; 165 lb operator;		
72 in Low Profile bucket; full of fuel;		
12 x 16.5 tires:	7,700 lb (3 490 kg)	
Shipping weight	7,365 lb (3 340 kg)	
Add-on weights:		
Side cab glass	47 lb (21.3 kg)	
Lexan [®] cab door	74 lb (33.6 kg)	
Glass cab door w/ wiper	134 lb (60.8 kg)	
Suspension seat	22 lb (10.0 kg)	

HYDRAULICS

Standard equipment pur	ip type Gear	
Displacement: Standard aux. High-flow aux.	2.08 in ³ (34.1 cm ³) 1.1 in ³ (18.3 cm ³)	
Standard flow @ rated engine RPM: @ 100% efficiency 22.5 gpm (85 L/min)		
Optional high-flow @ rate @ 100% efficiency	d engine RPM: 34.6 gpm (131 L/min)	
Loader control valve: Type 3 sp Relief pressure	oool/open center/series 3,000 psi (207 bar)	
Port relief pressures: Loader raise Bucket dump Bucket curl	3,263 psi (225 bar) 3,770 psi (260 bar) 1,160 psi (80 bar)	
Hydraulic lines: Tubing Loop hoses	37° JIC Flare SAE 100 R13	

HYDRAULICS CON	т.	Bucket cylinders:	0.0 in (70.0 mm)	Hydraulic system:	
Hydraulic oil cooler:		Bore diameter Rod diameter	3.0 in (76.2 mm) 1.5 in (38.1 mm)	Reservoir Total	6.9 gal (26.0 L) 11.8 gal (44.5 L)
Number of fins Number of tubes Area	10 per inch (3.94 per cm) 11 130.7 in ² (843 cm ²)	Stroke Closed length	16.1 in (410.0 mm) 24.0 in (610.0 mm)	Chain tanks – per side	7.4 gal (27.9 L)
Hydraulic filter	6 micron/Spin-on	SERVICE CAPACITIES		PERFORMANCE SPECS	
Lift cylinders: Bore diameter	2.50 in (63.5 mm)	Fuel tank	25.5 gal (96.5 L)	Rated operating load: 50% of tipping load	2,500 lb (1 135 kg)
Rod diameter Stroke	1.75 in (44.5 mm) 32.2 in (817.9 mm)	Engine oil w/ filter	2.5 gal (9.5 L)	Tipping load	5,000 lb (2 270 kg)
Closed length	45.6 in (1 158.0 mm)	K		Breakout forces @ 3,150 p Bucket cylinder Lift cylinder – tip limit	osi (217 bar): 7,480 lb (33.3 kN) 5,680 lb (25.3 kN)
		G		Cycle times: Raise Lower Dump Roll back	3.7 sec 1.9 sec 2.7 sec 2.0 sec
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Line drawings are for illustrative purpose only and may not be exact representation of unit.

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DIMENSIONS	
A. Overall operating height: with foundry/excavating bucket short lip with low profile/standard lip bucket	156.3 in (3.97 m) 160.3 in (4.07 m)
with low profile extended/long lip bucket	165.3 in (4.20 m)
Height to: B. Bucket hinge pin C. Top of ROPS D. Bottom of level bucket, fully raised	125.1 in (3.18 m) 78.8 in (2.00 m) 123.3 in (3.12 m)
Overall length: E. without attachment with coupler F. with foundry/excavating bucket on ground with low profile bucket with low profile extended bucket	117.4 in (2.98 m) 142.2 in (3.61 m) 146.2 in (3.71 m) 151.3 in (3.84 m)
G. Dump angle	38.1°
H. Dump height: with foundry/excavating bucket short lip with low profile/standard lip bucket	100.9 in (2 562 mm) @ 38.1° 98.3 in (2.50 m)
I. Dump reach at maximum height	95.2 in (2.42 m)
Maximum attachment rollback: J. Bucket on ground K. Bucket at full height	30.7° 99.7°
L. Wheelbase	52 in (1.32 m)
M. Ground clearance – bottom of belly pan	8.0 in (0.20 m)
 N. Angle of departure Clearance circle: O. without bucket P. with 72 in (1.8 m) foundry bucket in carry position with 72 in (1.8 m) low profile bucket on ground with 72 in (1.8 m) extended low profile on ground 	23.5° 55.1 in (1.40 m) 83.5 in (2.12 m) 87.2 in (2.22 m) 91.9 in (2.33 m)
Q. Clearance circle rear	70.4 in (1.79 m)
R. Rear axle to bumper	40.7 in (1.03 m)
Rolling radius	16.1 in (0.41 m)
S. Tread width with spec tires	56.9 in (1.45 m)
T. Over the tire width with spec tires	69.6 in (1.71 m)
SR250	2 of 4

TIRE SELECTION				
Туре	Size	Tread Gauge	Width Over Tires	Tire Weight
Heavy-Duty	12 x 16.5	57 in (1.47 m)	70 in (1.79 m)	_
Premium	12 x 16.5	57 in (1.47 m)	70 in (1.79 m)	_
Premium-Lined	12 x 16.5	57 in (1.47 m)	70 in (1.79 m)	_
Severe-Duty	12 x 16.5	57 in (1.47 m)	70 in (1.79 m)	_
Mining	12 x 16.5	57 in (1.47 m)	70 in (1.79 m)	_
Non-Pneumatic	12 x 16.5	57 in (1.47 m)	70 in (1.79 m)	_
Flotation	33 x 15.5	60 in (1.54 m)	76 in (1.93 m)	_
Premium	14 x 17.5	62 in (1.58 m)	76 in (1.93 m)	-

OPTIONAL BUCKETS			
Туре	Width	Weight	Heaped Capacity
Dirt & Foundry	72 in (1.83 m)	420 lb (190 kg)	16.2 ft ³ (0.46 m ³)
	78 in (1.98 m)	440 lb (200 kg)	18.4 ft ³ (0.52 m ³)
Low Profile	72 in (1.83 m)	420 lb (190 kg)	14.8 ft ³ (0.42 m ³)
Low Profile Extended	72 in (1.83 m)	420 lb (190 kg)	17.7 ft ³ (0.50 m ³)
	78 in (1.98 m)	440 lb (200 kg)	18.6 ft ³ (0.53 m ³)
	84 in (2.13 m)	575 lb (262 kg)	20.2 ft ³ (0.57 m ³)
Light Material	72 in (1.83 m)	420 lb (190 kg)	23.3 ft ³ (0.66 m ³)
	84 in (2.13 m)	575 lb (262 kg)	27.9 ft ³ (0.79 m ³)
Manure & Slurry	72 in (1.83 m)	420 lb (190 kg)	19.1 ft ³ (0.54 m ³)
	84 in (2.13 m)	575 lb (262 kg)	22.5 ft ³ (0.64 m ³)
Heavy-Duty	72 in (1.83 m)	420 lb (190 kg)	14.1 ft ³ (0.40 m ³)
	78 in (1.98 m)	440 lb (200 kg)	15.9 ft ³ (0.45 m ³)
	84 in (2.13 m)	575 lb (262 kg)	19.4 ft ³ (0.55 m ³)

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

F5C E5454 C*A003 195 CID (3.2 L) Turbo Non-regulated Tier 3 Turbocharged without waste gate fuel injection Horsepower: Gross: 90 hp (67 kW) Net: 84 hp (63 kW) Peak torque: 251 lb-ft (340 N·m) 120 amp alternator Dual element air cooler Organic Acid Technology (OAT) Anti-freeze solution to -34° F Fuel tank - 25.5 gal (U.S.) Over and under radiator and oil cooler 3-stack after cooler/radiator/oil cooler configuration Glow plugs

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

ROPS/FOPS Level 1 canopy with side screens Keyed start ignition

3-point seat belt

Ventilation system with integrated heater Electro-hydraulic controls:

For drive/steering, loader functions Switchable between H and ISO patterns Adjustable sensitivity of controls

Mechanical hand controls

Hand and foot controls:

Hand controls the loader drive function and foot controls the bucket and boom

Non suspension seat

Suspension seat, vinyl

Open cab interior trim package Demolition cab door with polycarbonate

FOPS level 2

Heavy duty rear door

Integral engine oil cooler Fuel filter with water trap 1,000 CCA 12V battery Master electrical disconnect

DRIVETRAIN

2-speed hydrostatic four wheel drive ASA #100HS drive chain SAHR disc parking brake

HYDRAULICS

Auxiliary hydraulics: @ 3,050 psi (210 bar) - 23.8 gpm (90 L/min) 6 micron oil filtration system 3-spool loader control valve Auxiliary hydraulic disconnects, ISO flat-face - connect-under-pressure with case drain Hydraulic circuit pedal lock Auxiliary function lockout override Loader lift lockout override Heavy-duty hydraulic oil cooler Loader arm float position Loader function lockout system Hydraulic one-way self-leveling Ride control

HYDRAULICS

High-flow auxiliary hydraulics - combined: @ 3,050 psi (210 bar) - 33.2 gpm (126 L/min) Second auxiliary hydraulics

LOADER

Auxiliary front electric control Manual attachment coupler

OTHER

Language decals Factory-installed tires - see page 3 Buckets - see page 3 Bolt-on bucket cutting edges Bolt-on heavy-duty bucket spill guard Special paint Offsite service arrangement Telematics

LOADER

Heavy duty hydraulic attachment coupler Radial lift geometry Loader lift arm support strut SAE operating load: 2,500 lbs Tipping load: 5,000 lbs

TIRES

12 X 16.5 Heavy duty

OTHER STANDARD FEATURES

Halogen lights - 2 front, 2 side, 2 rear flood Heavy duty front lights Pre-wired for rotating beacon Lockable service access hood Single-point daily service Rear tail lights Remote oil drain Remote oil and fuel filters Block heater Debris ingression sealing Mounting points for add-on counterweights

FACTORY SUPPLIED ATTACHMENTS

Interior mirror

Add-on counterweights Road lights Rotating beacon Four-corner LED strobe Bolt-on heavy-duty bucket teeth 48 in (1.22 m) pallet forks

SERVICE PARTS

3 inch (76.2 mm) retractable seat belt

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