





| E | N | G | T. | F |
|---|---|---|----|---|
|   |   |   |    |   |

| Model  |         | F5C E5454 C* A003                                |
|--|---------|--|
| Emissions Certifi  | cation  | Non-regulated/Tier 3                             |
| Type   | Diesel, | Turbo - Direct Injection                         |
| Cylinders  |         | 4  |
| Bore/Stroke  |         | 3.9 x 4.1 in<br>(99 x 104 mm)                    |
| Displacement   |         | 195 in <sup>3</sup> (3.2 L)                      |
| Fuel injection   |         | Direct   |
| Fuel   |         | #2 Diesel  |
| Fuel filter  |         | In-line strainer                                 |
| Oil filtration   | Sp      | in-on/full-flow cartridge                        |
| Air intake   | Turboo  | charged w/o waste gate                           |
| Cooling  |         | Liquid   |
| Engine speeds High idle – no le Rated – full load Low idle |         | RPM<br>2675 +/- 25<br>2500<br>1075 +/- 25        |
| Horsepower @ 2<br>Gross                                    | 500 RPN | M – SAE J1349:<br>90 hp (67 kW)<br>84 hp (63 kW) |

84 hp (63 kW)

Peak torque @ 1400 RPM

251 lb·ft (340 N·m) Radiator:

Core type All aluminum Core size area 412 in<sup>2</sup> (0.266 m<sup>2</sup>) Rows of tubes 44 x 4 16 +/- 2 psi Cap pressure (1.10 +/- 0.14 bar)

Fan:

Diameter 20.4 in (518 mm) Ratio 0.96:1

Water pump:

Style Centrifugal Flow 29 gpm (110 L/min)

Engine lubrication pump:

Rotor pump w/ deep sump pan, plate cooler and pressurized under-piston nozzles

Pump operating angle ratings:

Side to side 45° Bucket up 35° 45° Bucket down

### DRIVETRAIN

Drive pump control Electro-hydraulic Pump to engine ratio Displacement 2.81 in<sup>3</sup> (46 cm<sup>3</sup>) Flow @ rated engine RPM:

@ 100% efficiency 29.4 gpm (111 L/min)

Charge pressure:

360 +/- 18 psi (24.5 +/- 0.5 bar) 5,220 psi (261 bar) System relief

Drive motors:

Max. displacement 2.75 in<sup>3</sup> (45 cm<sup>3</sup>) Optional high speed 34.6 in<sup>3</sup> (131 cm<sup>3</sup>) Speed @ high idle engine RPM

100% efficiency @ rated engine RPM 103 Speed @ optional high speed RPM 156 Torque @ max. displacement and relief

pressure - calculated 5.003 psi (345 bar) 4,654 lb·ft (6 310 N·m)

Travel speed:

5.1 mph (8.2 kph) Low range High range - optional 7.6 mph (12.2 kph)

Final drive Planetary reduction

Parking brake:

Spring-applied, Type 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      | 4.29 hp (3.2 kW)              |
| Battery      | 12-volt low-maintenance       |
| 1,000 cold-c | 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 throttle; 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/ 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.

|  | ATIN |  |  |
|--|------|--|--|
|  |      |  |  |
|  |      |  |  |
|  |      |  |  |

| Operating weight   | 10,200 lb (4 625 kg)  |
|--|---|
| Shipping weight  | 9,865 lb (4 475 kg)   |
| Add-on weights: Side cab glass Lexan® door Glass cab door w/ wiper Suspension seat | 47 lb (21.3 kg)<br>74 lb (33.6 kg)<br>134 lb (60.8 kg)<br>21 lb (10.0 kg) |

### **HYDRAULICS**

| ump type Gear   |
|---|
| 2.08 in <sup>3</sup> (34.1 cm <sup>3</sup> )<br>1.1 in <sup>3</sup> (18.3 cm <sup>3</sup> ) |
| gine RPM:<br>22.5 gpm (85 L/min)  |
| ated engine RPM:<br>34.6 gpm (131 L/min)  |
| spool/Open center/Series<br>00 (+145/-0) psi (207 bar)                                      |
| 3,263 psi (225 bar)<br>3,770 psi (260 bar)<br>1,160 psi (80 bar)                            |
| 37° JIC Flare<br>SAE 100 R13  |
| 10 per inch (3.94 per cm)<br>11<br>130.7 in <sup>2</sup> (843 cm <sup>2</sup> )             |
| 6 micron/Spin-on  |
| 2.75 in (69.85 mm)<br>2.00 in (50.8 mm)<br>34.90 in (886.5 mm)<br>47.40 in (1 205.0 mm)     |
|   |

## SERVICE CAPACITIES

Bore diameter

Rod diameter

Closed length

Stroke

| Fuel Tank            | 25.5 gal (96.5 L)  |
|----------------------|--------------------|
| Engine oil w/ filter | 10 qt (9.4 L)      |
| Hydraulic system:    |                    |
| Reservoir            | 6.0 gal (22.7 L)   |
| Total                | 11.75 gal (44.5 L) |

3.0 in (76.2 mm)

1.5 in (38.1 mm)

16.14 in (410.0 mm)

24.0 in (610.0 mm)

### PERFORMANCE SPECS

Rated operating load:

35% of tipping load 2,660 lb (1 209 kg) 50% of tipping load 3,800 lb (1 723 kg)

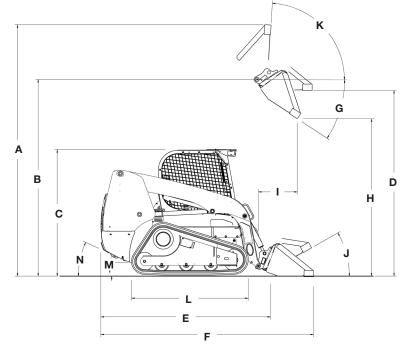
Tipping load 7,600 lb (3 447 kg)

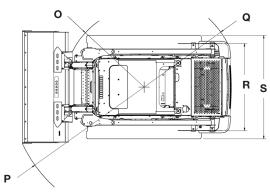
Breakout forces @ 3,150 psi (217 bar):

Bucket cylinder 7,510 lb (33.4 kN) Lift cylinder 6,020 lb (26.8 kN)

Cycle times:

Raise 4.8 sec
Lower 2.8 sec
Dump 2.7 sec
Roll back 2.0 sec





Line drawings are for illustrative purpose only and may not be exact representation of unit.

| A. Overall operating height:  | DII       | MENSIONS   |  |
|---|-----------|--|--|
| B. Bucket hinge pin         131.6 in (3.34 m)           C. Top of ROPS         80.4 in (2.04 m)           D. Bottom of level bucket, fully raised         124.8 in (3.17 m)           Overall length:         117.7 in (2.99 m)           E. without attachment with coupler         117.7 in (2.99 m)           F. with foundry/excavating bucket on ground         141.9 in (3.60 m)           with low profile bucket         146.0 in (3.71 m)           with profile extended bucket         151.0 in (3.84 m)           B. Dump angle         53.5°           H. Dump height:         105.1 in (2.67 m)           with foundry/excavating bucket short clip         105.1 in (2.67 m)           with foundry/excavating bucket short clip         105.1 in (2.67 m)           with foundry/excavating bucket short clip         105.1 in (2.67 m)           with foundry/excavating bucket short clip         105.1 in (2.67 m)           with low profile/standard lip bucket         31.4 in (0.80 m)           Bucket at full height         34.2°           K. Bucket at full height         68.0°           L. Track on ground         63.1 in (1.80 m)           M. Angle of departure         32.0°           Clearance circle:         56.2 in (1.43 m)           O. without bucket         56.2 in (1.43 m)           P. | A.        | with foundry/excavating bucket short lip with low profile/standard lip bucket  | 166.0 in (4.22 m)  |
| E. without attachment with coupler         117.7 in (2.99 m)           F. with foundry/excavating bucket on ground with low profile bucket         141.9 in (3.60 m) with low profile bucket           with low profile extended bucket         151.0 in (3.84 m) with low profile extended bucket           G. Dump angle         53.5°           H. Dump height:  | В.<br>С.  | Bucket hinge pin Top of ROPS   | 80.4 in (2.04 m)   |
| H. Dump height:       105.1 in (2.67 m)         with foundry/excavating bucket short clip       105.1 in (2.67 m)         with low profile/standard lip bucket       102.2 in (2.60 m)         I. Dump reach at maximum height       31.4 in (0.80 m)         Maximum attachment rollback:       34.2°         J. Bucket on ground       86.0°         L. Track on ground       63.1 in (1.60 m)         M. Ground clearance – bottom of belly pan       9.5 in (0.24 m)         N. Angle of departure       32.0°         Clearance circle:       56.2 in (1.43 m)         P. with 78 in (2.0 m) foundry bucket in carry position with 78 in (2.0 m) foundry bucket on ground with 78 in (2.0 m) low profile bucket on ground 88.4 in (2.25 m) with 78 in (2.0 m) extended low profile on ground 92.6 in (2.35 m)         Q. Clearance circle rear       70.4 in (1.79 m)         R. Track width       58.3 in (1.48 m)  | E.        | without attachment with coupler with foundry/excavating bucket on ground with low profile bucket                                   | 141.9 in (3.60 m)<br>146.0 in (3.71 m)                   |
| Maximum attachment rollback:       34.2°         J. Bucket on ground       34.2°         K. Bucket at full height       86.0°         L. Track on ground       63.1 in (1.60 m)         M. Ground clearance – bottom of belly pan       9.5 in (0.24 m)         N. Angle of departure       32.0°         Clearance circle:       0. without bucket         O. without bucket       56.2 in (1.43 m)         P. with 78 in (2.0 m) foundry bucket in carry position with 78 in (2.0 m) low profile bucket on ground with 78 in (2.0 m) extended low profile on ground       88.4 in (2.25 m)         with 78 in (2.0 m) extended low profile on ground       92.6 in (2.35 m)         Q. Clearance circle rear       70.4 in (1.79 m)         R. Track width       58.3 in (1.48 m)   |           | Dump height: with foundry/excavating bucket short clip   | 105.1 in (2.67 m)  |
| J. Bucket on ground       34.2°         K. Bucket at full height       86.0°         L. Track on ground       63.1 in (1.60 m)         M. Ground clearance – bottom of belly pan       9.5 in (0.24 m)         N. Angle of departure       32.0°         Clearance circle:       0. without bucket         O. without bucket       56.2 in (1.43 m)         P. with 78 in (2.0 m) foundry bucket in carry position with 78 in (2.0 m) low profile bucket on ground with 78 in (2.0 m) extended low profile on ground       88.4 in (2.25 m)         Q. Clearance circle rear       70.4 in (1.79 m)         R. Track width       58.3 in (1.48 m)   | I.        | Dump reach at maximum height   | 31.4 in (0.80 m)   |
| M. Ground clearance – bottom of belly pan       9.5 in (0.24 m)         N. Angle of departure       32.0°         Clearance circle:       56.2 in (1.43 m)         P. without bucket       56.2 in (1.43 m)         P. with 78 in (2.0 m) foundry bucket in carry position with 78 in (2.0 m) low profile bucket on ground with 78 in (2.0 m) extended low profile on ground       88.4 in (2.25 m)         with 78 in (2.0 m) extended low profile on ground       92.6 in (2.35 m)         Q. Clearance circle rear       70.4 in (1.79 m)         R. Track width       58.3 in (1.48 m)  | J.<br>K.  | Bucket on ground Bucket at full height   | 86.0°  |
| N. Angle of departure       32.0°         Clearance circle:       56.2 in (1.43 m)         O. without bucket       56.2 in (1.43 m)         P. with 78 in (2.0 m) foundry bucket in carry position with 78 in (2.0 m) low profile bucket on ground with 78 in (2.0 m) extended low profile on ground       88.4 in (2.25 m)         with 78 in (2.0 m) extended low profile on ground       92.6 in (2.35 m)         Q. Clearance circle rear       70.4 in (1.79 m)         R. Track width       58.3 in (1.48 m)  | _         |  | . ,  |
| Clearance circle:  O. without bucket 56.2 in (1.43 m)  P. with 78 in (2.0 m) foundry bucket in carry position     with 78 in (2.0 m) low profile bucket on ground     with 78 in (2.0 m) extended low profile on ground     with 78 in (2.0 m) extended low profile on ground  Q. Clearance circle rear  R. Track width  56.2 in (1.43 m)  84.8 in (2.16 m)  88.4 in (2.25 m)  92.6 in (2.35 m)  70.4 in (1.79 m)  8. Track width   |           | • •  |  |
| <b>R.</b> Track width 58.3 in (1.48 m)  | Cle<br>O. | earance circle: without bucket with 78 in (2.0 m) foundry bucket in carry position with 78 in (2.0 m) low profile bucket on ground | 56.2 in (1.43 m)<br>84.8 in (2.16 m)<br>88.4 in (2.25 m) |
|   | Q.        | Clearance circle rear  | 70.4 in (1.79 m)   |
| S. Over the track width         76.0 in (1.93 m)  | R.        | Track width  | 58.3 in (1.48 m)   |
|   | S.        | Over the track width   | 76.0 in (1.93 m)   |

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| TRACK SELECTION  |   |                  |                           |
|------------------|---|------------------|---------------------------|
| Туре             | Area  | Ground Pressure  | Width to Outside of Track |
| 15.7 in (400 mm) | 2,038 in <sup>2</sup> (13 120 cm <sup>2</sup> ) | 4.4 psi (30 kPa) | 74 in (1.88 m)            |
| 17.7 in (450 mm) | 2,293 in <sup>2</sup> (13 776 cm <sup>2</sup> ) | 4.5 psi (31 kPa) | 76 in (1.93 m)            |

| OPTIONAL BUCKETS     |                |                 |   |
|----------------------|----------------|-----------------|---|
| Туре                 | Width          | Weight          | Heaped Capacity                             |
| Dirt & Foundry       | 78 in (1.98 m) | 440 lb (200 kg) | 17.7 ft <sup>3</sup> (0.50 m <sup>3</sup> ) |
| Low Profile Extended | 78 in (1.98 m) | 440 lb (200 kg) | 19.1 ft <sup>3</sup> (0.54 m <sup>3</sup> ) |
|                      | 84 in (2.13 m) | 575 lb (262 kg) | 20.2 ft <sup>3</sup> (0.57 m <sup>3</sup> ) |
| Light Material       | 84 in (2.13 m) | 575 lb (262 kg) | 27.5 ft <sup>3</sup> (0.78 m <sup>3</sup> ) |
| Manure & Slurry      | 84 in (2.13 m) | 575 lb (262 kg) | 22.6 ft <sup>3</sup> (0.64 m <sup>3</sup> ) |
| Heavy-Duty           | 78 in (1.98 m) | 440 lb (200 kg) | 15.5 ft <sup>3</sup> (0.44 m <sup>3</sup> ) |
|                      | 84 in (2.13 m) | 575 lb (262 kg) | 25.7 ft <sup>3</sup> (0.47 m <sup>3</sup> ) |

# 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 (67 kW)

Net: 84 (63 kW)

Peak torque 251 lb·ft (340 N·m)

120 amp alternator

Dual element air cleaner

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

Integral engine oil cooler

Fuel filter with water trap

1,000 CCA 12V battery

Master electrical disconnect

#### DRIVETRAIN

2-speed hydrostatic four wheel drive 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

#### LOADER

Heavy duty hydraulic attachment coupler

Vertical lift geometry

Loader lift arm support strut

SAE operating load: 3,800 lbs

Tipping load: 7,600 lbs

In-CAB loader lock

#### **TRACKS**

HiQual S-Wave Tracks

### **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

Machine protection auto shutdown

Mounting points for add-on counterweights

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#### **OPTIONAL EQUIPMENT**

#### **OPERATOR ENVIRONMENT**

ROPS/FOPS Level 1 canopy with side screens

Keyed start ignition

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

#### **HYDRAULICS**

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

Enhanced High-flow auxiliary hydraulics - EHF: @ 4,000 psi (276 bar) - 35.0 gpm (132.5 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

#### **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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SAFETY™ Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs and use any safety features provided.

Form No. CCE201604TV380T3 Replaces Form No. CCE201511TV380T3

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