



ENGINE	
Model	FPT F5BFL413B
Emissions Certification	Tier 4 Final
Type Diesel 4-	stroke, Turbocharged
Cylinders	4
Bore/Stroke	3.90 x 4.33 in (99 x 110 mm)
Displacement	207 in ³ (3.4 L)
Fuel injection	Direct, high pressure common rail – HPCR
Fuel	Diesel
Engine speeds* Rated speed – full load Low idle High idle – no load	RPM 2200 900 – 1000 2330 – 2430
Horsepower @ 2200 RPM: Gross Net	110 hp (82 kW) 108 hp (81 kW)
Maximum torque @ 1400 F Gross Net	RPM: 339 lb·ft (460 N·m) 338 lb·ft (459 N·m)
Torque rise at rated speed	
Radiator: Core type Core size area Rows of tubes	Square wave 486 in² (3 145 cm²) 4
Viscous fan: Style 9 Diameter Ratio	blade viscous suction 19.68 in (500 mm) 1.4:1
Pump operating angle ratir Side to side Fore and aft Oil filtration	Rated 35° Rated 35° Replaceable, full flow cartridge

NOTE: *Engine speeds w/ standard transmission. Meets federal emission regulations.

DRIVETRAIN

Transmission – standard: PowerDrive S-Type, 4F-4R fully synchronized electric/hydraulic shifting w/ auto shift mode and direct drive

Transmission - optional:

4F-4R Power Shuttle Synchromesh Transmission manual gear shift, fully synchronized

Specifications below apply to both Power Shuttle and PowerDrive S-Type transmission unless otherwise indicated.

unless otherwise indicate	ed.		
Gear ratios	Gear ratios Forward/Reverse		
1st	5.603/4.643		
2nd	3.431/2.884		
3rd		.584/1.313	
4th	(0.793/0.657	
Travel speeds – Standar			
DD Transmission	Forward	Reverse	
1st	mph (kph) 4.1 (6.6)	mph (kph) 4.9 (7.9)	
2nd	6.5 (10.5)	7.8 (12.5)	
3rd w/ DD Feature Off	13.8 (22.3)	16.5 (26.5)	
3rd w/ DD	14.4 (23.2)	16.5 (26.5)	
4th w/ DD Feature Off	25.2 (40.6)	29.0 (46.7)	
4th w/ DD	25.2 (40.6)	29.0 (46.7)	
Travel speeds - Optiona	I Power Shu	ttle	
Transmission	Forward	Reverse	
	mph (kph)	mph (kph)	
1st	4.1 (6.6)	4.9 (7.9)	
2nd	6.5 (10.5)	7.8 (12.5)	
3rd	13.8 (22.3)	16.5 (26.5)	
4th	25.2 (40.6)	29.0 (46.7)	
Transmission – optional:			
PowerDrive H-Type, 4F			
shifting w/ auto shift m	ode and dire	ct drive	
Gear ratios	Forwa	ard/Reverse	
1st		5.533/4.549	
2nd		3.359/2.762	
3rd		1.532/1.260	
4th		0.811/0.667	
Travel speeds – Optiona			
DD Transmission	Forward	Reverse	
1st	mph (kph) 4.0 (6.5)	mph (kph) 4.8 (7.7)	
2nd	6.6 (10.6)	7.8 (12.6)	
3rd w/ DD Feature Off	13.7 (22.0)	16.4 (26.4)	
3rd w/ DD	14.4 (23.1)	16.4 (26.4)	
4th w/ DD Feature Off	23.0 (37.0)	27.6 (44.4)	
4th w/ DD	25.0 (40.2)	27.6 (44.4)	
Torque converter ratio		2.2	
Limited slip differential -	4WD		
Front 4WD/Rear axle:			
Differential ratio		2.3/2.5	
Planetary hub ratio		6.0/6.4	
Total reduction ratio		13.7/16.0	
Service brakes:			
Individually applied, pov	wer assisted,		
hydraulically actuated, i	hydraulically actuated, maintenance-free,		
self-adjusting, outboard	l mounted, w	et disc,	
2 per side.			
Total disc area		in² (0.25 m²)	
Parking brakes Trans Mounted			
spring-applied hydraulic release - SAHR			
NOTE: Travel speeds at 2295 engine			

NOTE: Travel speeds at 2295 engine RPM specified: w/ 21.0 L x 24.0 tires.

580SN WT

BACKHOE LOADER

TIER 4 FINAL CERTIFIED

ELECTRICALVoltage12 Volts, negative groundAlternator160 ampBattery850 cold-cranking ampsOptional dual batteries:
850 cold-cranking amps eachPower plugs – 230 amps total

OPERATOR ENVIRONMENT

ROPS/FOPS certified protective canopy; Anti-vandalism cover for dash – w/ canopy only; Rear fenders extensions; Coat hook w/ garment strap; Interior rearview convex mirror; Non-suspension seat – 180° swivel – Vinyl; 2 in (50 mm) retractable seat belt; Cup holder/ storage tray mounted on left-hand fender; Right-hand storage compartment w/ lid.

Gauges:

Engine water temperature; Converter oil temperature; Fuel level; Tachometer/ hourmeter; DEF level.

Warning lights:

Air cleaner restriction; Alternator; A/C high pressure; Cold start; Engine oil pressure; Hydraulic oil filter bypass; Parking brake engagement; Low fuel; Water in fuel; Low DEF. Audible alarms w/ diagnostics: Coolant temperature; Engine oil pressure;

Parking brake engagement; Converter oil temperature; Shuttle engagement/seat position; Backup alarm; Low DEF.

Horn Dual switched front and rear

OPERATING WEIGHT

Configuration - SAE Transport:

No Operator, 4:1 Loader Bucket, E-hoe, 2 Door Cab w/ Heat and AC, Front Counter Weight, Fully fueled, Heavy Lift, PowerDrive transmission, air seat, ride control, pilot backhoe controls, 21 L – 24 Rear tires. 20 077 lb (9 107 kg)

	20,077 ID (9 T07 Kg)
Add-on weights:	
Cab-over canopy	309 lb (140 kg)
Fabricated stabilizer pads	141 lb (64 kg)
Counterweights	700 lb (318 kg)
Extendahoe®	286 lb (130 kg)
4WD w/ driveshaft guard	283 lb (128 kg)

HYDRAULICS

Pump:

Bosch Rexroth Series 31 Variable Displacement Axial Piston Pump

Main relief pressure:	
Standard	3,450 +/- 50 psi
	(238 +/- 3.5 bar)
Power Lift	3,780 +/- 50 psi
	(261 +/- 3.5 bar)

Filtration:

7 micron, full flow replaceable cartridge on return line, condition indicator light for filter.

Oil cooler

Loader flow @ rated engine RPM:

41 gpm @ 2,340 psi (156.2 L/min @ 161 bar)

Heavy-duty

Loader control valve w/ pilot or manual backhoe controls:

Two or three-spool closed center sectional control valve. Single lever manual control for lift and tilt functions. The three-spool valve uses a proportional Electro-Hydraulic control for the auxiliary function. The lift lever has a positive hold "Float" position and a "returnto-dig" feature.

Loader auxiliary hydraulics w/ proportional thumb switch w/ detent on loader control handle: 0 - 41 gpm (0 - 156.2 L/min)

Backhoe flow @ rated engine RPM: 41 gpm @ 3,100 psi (156.2 L/min @ 214 bar)

Manual backhoe control valve:

Six-spool monoblock open center control valve w/ seventh and eighth spool bolt-on sections. Features "Pro-Control" which includes custom designed spools for each individual function along w/ "swing cushioning" valve for zero-wag swing control. Basic control valve has an open center parallel circuit for all functions.

Pilot backhoe control valve:

Six, seven, or eight spool sectional closed center control valve. Features "Pro-Control" which includes custom designed spools for each individual function along w/ "swing cushioning" valve for zero-wag swing control. Basic control valve is closed center, w/ circuits in parallel w/ a post-compensated, flow sharing feature for simultaneous operation of all circuits.

1-way flow auxiliary hydraulics:

1-way-flow hydraulic valve is equipped w/ an adjustable LS relief valve to control attachment pressure and a 6 position flow control selector for 6 detented, distinct flow settings. Actuation:

Manual backhoe controls – cab floor pedal Pilot controls – left-hand joystick

2-way flow auxiliary hydraulics*:

Actuation:

Activate the 2-way flow switch located on the rear console

Manual shift – 2-way flow linkage on far right of backhoe tower

Pilot controls – left-hand joystick.

NOTE: *Available w/ 1-way/2-way Aux. Hyd. option.

SERVICE CAPACITIES	
Fuel tank	35.0 gal (132.0 L)
DEF tank	3.6 gal (13.5 L)
Hydraulic system: Total w/ Extendahoe® Reservoir w/ filter Reservoir w/o filter	131 qt (123.6 L) 55.4 qt (52.4 L) 53.4 qt (50.5 L)
Transmission – total system: 4WD Standard 4WD PowerDrive S-Type 4WD PowerDrive H-Type	21 qt (19.4 L) 22 qt (20.7 L) 19 qt (18.0 L)

Front axle:	
4WD Differential	9.1 qt (8.6 L)
4WD Planetaries – each	1.1 qt (1.0 L)
Rear axle:	
Differential and planetaries	19.7 qt (18.6 L)
Engine oil w/ filter	8.5 qt (8.0 L)
Cooling system:	
w/ heater	19.0 qt (18.0 L)
w/o heater	18.3 qt (17.3 L)
Window washer reservoir	3.0 qt (2.8 L)

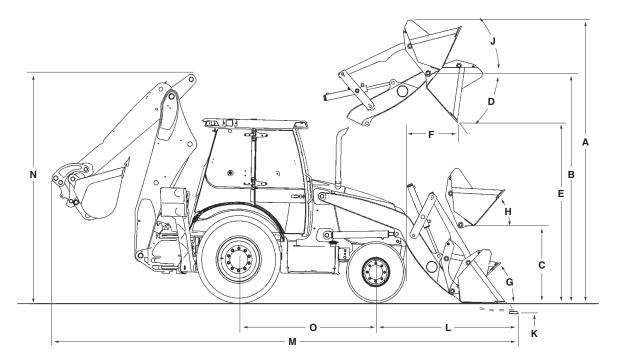
OTHER SPECIFICATIONS Front tires: 4WD 12.5/80 x 18.0, 10-ply rating Rear tires: 4WD 21.0 L x 24.0, 10-ply rating Turning radius*: Curb to Curb: 4WD - engaged: Brakes on 12 ft 0 in (3.65 m) Brakes off 14 ft 11 in (4.54 m) 4WD - disengaged: Brakes on 11 ft 3 in (3.43 m) Brakes off 13 ft 6 in (4.11 m)

NOTE: *Turning radius dimensions curb to curb w/ 21.0 L x 24.0 rear tires.

LOADER BUCKET SIZES				
Туре	Width	Weight	Struck	Heaped Capacity
Long Lip Bucket with bolt-on edge	93 in (2.36 m)	1,188 lb (539 kg)	1.1 yd ³ (0.84 m ³)	1.29 yd ³ (0.99 m ³)
4 IN 1 [®] Bucket with bolt-on edge	93 in (2.36 m)	1,685 lb* (764 kg)	1.0 yd ³ (0.76 m ³)	1.20 yd ³ (0.92 m ³)

NOTE: *Weight of 4 IN 1[®] bucket includes edges, cylinders and tube lines.

BACKHOE BUCKET SIZES			
Туре	Width	Weight	Heaped Capacity
Universal Buckets	12 in (305 mm)	295 lb (134 kg)	3.40 ft ³ (0.10 m ³)
	18 in (457 mm)	356 lb (162 kg)	5.30 ft ³ (0.15 m ³)
	24 in (610 mm)	427 lb (194 kg)	7.70 ft ³ (0.22 m ³)
	30 in (762 mm)	489 lb (222 kg)	10.20 ft ³ (0.29 m ³)
	36 in (914 mm)	552 lb (251 kg)	12.70 ft ³ (0.36 m ³)
High Capacity Buckets	24 in (610 mm)	447 lb (203 kg)	8.50 ft ³ (0.24 m ³)
	30 in (762 mm)	502 lb (228 kg)	10.60 ft ³ (0.30 m ³)



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

OADER DIMENSIONS	Long Lip Bucket	4 IN 1 [®] Bucket
Overall operating height – fully raised	13 ft 11 in (4.24 m)	13 ft 10 in (4.22 m)
	13 ft 11 in (4.24 m)	13 ft 10 in (4.22 m)
leight to: 3. Bucket hinge pin fully raised	11 ft 6 in (3.50 m)	11 ft 6 in (3.50 m)
Bucket hinge pin at SAE carry	12.75 in (324 mm)	12.75 in (324 mm)
Dump angle at full height	45°	45°
Dump clearance at full height, 43° dump:		
Bucket	8 ft 11 in (2.73 m)	9 ft 1 in (2.77 m)
Clam open	— —	9 ft 11 in (3.01 m)
Dump reach at full height, 45° dump – from bumper:		
Bucket	27.0 in (685 mm)	27.0 in (685 mm)
Clam open	_	13.9 in (353 mm)
Bucket rollback:		
a. @ Groundline	40°	419
I. @ SAE carry . @ Full height	46° Adjustable	46° Adjustable
Generation and the second s	Aujustable	Aujustable
Bucket flat	6.1 in (156 mm)	5.9 in (151 mm)
Clam open – dozing		3.5 in (88 mm)
. Reach from front axle centerline – bucket on ground	6 ft 9 in (2.05 m)	6 ft 6 in (1.99 m)
ift capacity to full height – calculated values	8,425 lb (3 822 kg)	8,025 lb (3 640 kg)
Breakout force:		
Lift cylinders	11,450 lb (5 093 daN)	11,241 lb (5 000 daN)
Dump cylinders	10,873 lb (4 837 daN)	11,674 lb (5 193 daN)
Bucket cutting edge width	94.2 in (2.39 m)	93.0 in (2.36 m)
laximum grading angle	106°	106°
flaximum clam opening	_	38.3 in (972 mm)
Ioldboard height	_	36.8 in (934 mm)
laising time to full height	3.7 sec	3.7 sec
Bucket dumping time	2.0 sec	2.0 sec
owering time:		
Power down	2.5 sec	2.5 sec
Return-to-dig – manual controls/pilot controls	3.6 sec	3.0 sec
Clam:		
Open time	_	1.3 sec

NOTE: Loader dimensions taken with 4WD, 21.0 L x 24.0 rear tires.

	Standard Backhoe	Extendahoe®	
		Retracted	Extended
M. Overall transport length:			
Long Lip bucket	23 ft 4 in (7.11 m)	23 ft 4 in (7.11 m)	-
4 IN 1 [®] bucket	23 ft 1 in (7.04 m)	23 ft 1 in (7.04 m)	-
Overall transport width	8 ft 6 in (2.59 m)	8 ft 6 in (2.59 m)	-
Height – 4WD with 21.0 L x 24.0 tires:			
To top of canopy	8 ft 11 in (2.70 m)	8 ft 11 in (2.70 m)	8 ft 11 in (2.70 m)
To top of cab	8 ft 11 in (2.73 m)	8 ft 11 in (2.73 m)	8 ft 11 in (2.73 m)
To top of exhaust stack	8 ft 9 in (2.67 m)	8 ft 9 in (2.67 m)	8 ft 9 in (2.67 m)
N. Transport	11 ft 1 in (3.37 m)	11 ft 7 in (3.53 m)	-
Ground clearance at backhoe frame	14.8 in (377 mm)	14.8 in (377 mm)	14.8 in (377 mm)
Angle of departure	18.6°	18.6°	18.6°
Wheel tread:			
12.5/80 x 18.0	75.6 in (1.92 m)	75.6 in (1.92 m)	75.6 in (1.92 m)
21.0 L x 24.0	69.6 in (1.77 m)	69.6 in (1.77 m)	69.6 in (1.77 m)
Width over tires:			
12.5/80 L x 18.0	88.2 in (2.24 m)	88.2 in (2.24 m)	88.2 in (2.24 m)
21.0 L x 24.0	91.8 in (2.33 m)	91.8 in (2.33 m)	91.8 in (2.33 m)
O. Wheelbase:			
21.0 L x 24.0	84.5 in (2.15 m)	84.5 in (2.15 m)	84.5 in (2.15 m)

CYLINDERS				
	Bore Diameter	Rod Diameter	Stroke	Closed Length
Loader:				
Lift – 2	3.50 in (88.9 mm)	1.88 in (47.6 mm)	29.13 in (740.0 mm)	41.54 in (1 055.0 mm)
Dump – 2	3.00 in (76.2 mm)	1.50 in (38.1 mm)	20.33 in (516.5 mm)	29.90 in (759.5 mm)
4 IN 1 [®] clam – 2	3.00 in (76.2 mm)	1.75 in (44.5 mm)	9.08 in (230.6 mm)	19.62 in (498.3 mm)
Backhoe:				
Boom	5.00 in (127.0 mm)	2.50 in (63.5 mm)	38.25 in (971.6 mm)	52.82 in (1 341.6 mm)
Dipperstick	4.75 in (120.7 mm)	2.50 in (63.5 mm)	25.14 in (628.5 mm)	39.65 in (1 007.0 mm)
Bucket	3.50 in (88.9 mm)	2.50 in (63.5 mm)	35.35 in (897.9 mm)	48.17 in (1 223.6 mm)
Extendahoe®	3.00 in (76.2 mm)	1.75 in (44.5 mm)	42.05 in (1 068.0 mm)	56.22 in (1 428.0 mm)
Swing – 2	4.00 in (101.6 mm)	2.00 in (50.8 mm)	11.50 in (292.0 mm)	24.44 in (620.8 mm)
Stabilizer – 2	5.25 in (133.4 mm)	2.50 in (63.5 mm)	20.40 in (518.1 mm)	33.57 in (852.7 mm)

AXLE RATINGS		
	Front – 4WD	Rear
Maximum static	67,883 lb (30 791 kg)	70,848 lb (32 136 kg)
Dynamic operating	47,426 lb (21 512 kg)	49,494 lb (22 450 kg)
Static operating	18,969 lb (8 604 kg)	19,798 lb (8 980 kg)
Oscillation – front axle	22° total – 11° side to side	22° total – 11° side to side

	Standard	l Backhoe	Extendahoe®			
			Retracted		Extended	
	Standard	Power Lift	Standard	Power Lift	Standard	Power Lift
Boom Lift	Lift Capacity					
	lb (kg)					
+16 ft (4.87 m)	_		—		2,115 (959)	2,447 (1 110)
+14 ft (4.27 m)	3,039 (1 378)	3,484 (1 580)	2,837 (1 287)	3,282 (1 489)	2,395 (1 086)	2,769 (1 256)
+12 ft (3.66 m)	3,413 (1 548)	3,913 (1 775)	3,201 (1 452)	3,701 (1 679)	2,536 (1 151)	2,935 (1 331)
+10 ft (3.05 m)	3,499 (1 587)	4,015 (1 821)	3,281 (1 488)	3,797 (1 722)	2,593 (1 176)	3,001 (1 361)
+8 ft (2.44 m)	3,485 (1 581)	4,005 (1 817)	3,263 (1 480)	3,783 (1 716)	2,564 (1 163)	2,972 (1 348)
+6 ft (1.83 m)	3,438 (1 559)	3,957 (1 795)	3,213 (1 457)	3,732 (1 693)	2,549 (1 156)	2,961 (1 343)
+4 ft (1.22 m)	3,374 (1 530)	3,890 (1 764)	3,146 (1 427)	3,662 (1 661)	2,521 (1 144)	2,935 (1 331)
+2 ft (0.61 m)	3,307 (1 500)	3,820 (1 733)	3,077 (1 396)	3,590 (1 628)	2,489 (1 129)	2,904 (1 317)
Ground Level	3,251 (1 475)	3,761 (1 706)	3,018 (1 369)	3,528 (1 600)	2,489 (1 129)	2,904 (1 317)
-2 ft (0.61 m)	3,201 (1 452)	3,710 (1 683)	2,965 (1 345)	3,474 (1 576)	2,466 (1 118)	2,882 (1 307)
-4 ft (1.22 m)	3,175 (1 440)	3,686 (1 672)	2,935 (1 331)	3,446 (1 563)	2,446 (1 109)	2,866 (1 300)
-6 ft (1.83 m)	3,182 (1 443)	3,699 (1 678)	2,938 (1 333)	3,455 (1 567)	2,443 (1 108)	2,869 (1 301)
-8 ft (2.44 m)	3,258 (1 478)	3,792 (1 720)	3,007 (1 364)	3,541 (1 606)	2,465 (1 118)	2,899 (1 315)
-10 ft (3.05 m)	3,441 (1 561)	3,951 (1 792)	3,175 (1 440)	3,685 (1 671)	2,530 (1 148)	2,979 (1 351)
-12 ft (3.66 m)	_	_	_	_	2,707 (1 228)	3,187 (1 446)
-14 ft (4.27 m)	_	_	_	_	3,239 (1 469)	3,759 (1 705)
Dipper Lift						
+14 ft (4.27 m)	_	_	_	_	4,281 (1 942)	4,281 (1 942)
+12 ft (3.66 m)	5,822 (2 641)	5,822 (2 641)	5,618 (2 548)	5,618 (2 548)	4,046 (1 835)	4,046 (1 835)
+10 ft (3.05 m)	5,600 (2 540)	5,600 (2 540)	5,399 (2 449)	5,399 (2 449)	3,984 (1 807)	3,984 (1 807)
+8 ft (2.44 m)	5,562 (2 523)	5,562 (2 523)	5,360 (2 431)	5,360 (2 431)	3,913 (1 775)	3,913 (1 775)
+6 ft (1.83 m)	6,236 (2 829)	6,236 (2 829)	6,030 (2 735)	6,030 (2 735)	4,166 (1 889)	4,166 (1 889)
+4 ft (1.22 m)	7,424 (3 368)	7,424 (3 368)	7,203 (3 267)	7,203 (3 267)	4,102 (1 861)	4,102 (1 861)
+2 ft (0.61 m)	_		_	_	4,850 (2 200)	4,850 (2 200)

NOTE: Boom and Dipper Lift Capacities are rated per SAE J31 and are 87% of the maximum hydraulic lift force available with the specified options.

BACKHOE OPERATIONAL DATA

	Standard Backhoe	Exter	ndahoe®
		Retracted	Extended
Digging depth:			
Maximum	14 ft 6 in (4.43 m)	14 ft 6 in (4.43 m)	18 ft 0 in (5.48 m)
Maximum with hi-capacity bucket	15 ft 1 in (4.59 m)	15 ft 1 in (4.59 m)	18 ft 6 in (5.64 m)
2 ft (610 mm) flat bottom	14 ft 5 in (4.39 m)	14 ft 5 in (4.39 m)	17 ft 11 in (5.45 m)
8 ft (2.44 m) flat bottom	13 ft 5 in (4.09 m)	13 ft 5 in (4.09 m)	17 ft 1 in (5.22 m)
Overall reach from:			
Rear axle centerline	21 ft 11 in (6.68 m)	21 ft 11 in (6.68 m)	25 ft 4 in (7.71 m)
Swing pivot	18 ft 3 in (5.56 m)	18 ft 3 in (5.56 m)	21 ft 8 in (6.60 m)
Loading height	12 ft 0 in (3.66 m)	12 ft 0 in (3.66 m)	14 ft 4 in (4.38 m)
Loading reach	4 ft 8 in (1.42 m)	4 ft 8 in (1.42 m)	7 ft 3 in (2.22 m)
Swing arc	180°	180°	180°
Bucket rotation:			
Mechanical coupler	198.0°	198.0°	198.0°
Hydraulic coupler – Extendahoe® dipper	194.8°	194.8°	194.8°
Hydraulic coupler – standard dipper	198.0°	198.0°	198.0°
Stabilizer spread – operating:			
Flip pad	10 ft 9 in (3.28 m)	10 ft 9 in (3.28 m)	10 ft 9 in (3.28 m)
Cast pad	11 ft 1 in (3.38 m)	11 ft 1 in (3.38 m)	11 ft 1 in (3.38 m)
Digging force:			
Bucket cylinder – SAE rated 3,460 psi	13,795 lb (61 363 N)	13,795 lb (61 363 N)	13,795 lb (61 363 N)
Bucket cylinder – Power Lift	15,070 lb (67 039 N)	15,070 lb (67 039 N)	15,070 lb (67 039 N)
Dipper cylinder – SAE rated 3,460 psi	8,657 lb (38 508 N)	8,657 lb (38 508 N)	6,305 lb (28 045 N)
Dipper cylinder – Power Lift	9,458 lb (40 071 N)	9,458 lb (42 071 N)	
Leveling angle:			
Flip pad	11.5°	11.5°	11.5°
Cast pad	12.4°	12.4°	12.4°

NOTE: Lift capacities apply straight to the rear of prime mover. Equipped with 24 in (610 mm) Universal heavy-duty trenching bucket and Case coupler except as noted.

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

FPT F5BFL413B diesel Selective Catalytic Reduction - SCR Full flow engine oil filter Aspirated air cleaner - replaceable dual element dry type with radial seal Fuel filter with water trap Radiator with overflow bottle Antifreeze to -34° F (-37° C) Electronic throttles - foot and rotary hand Self-adjusting belt High Pressure Common Rail computer controlled injection with diagnostic features Engine ECO Mode - Detent on backhoe hand throttle, push button switch on dash Auto Engine Idle Auto Engine Shutdown Auto Protection Shutdown

Electronic Fuel Priming

DRIVETRAIN

PowerDrive S-Type transmission, 4F-4R fully synchronized electronic transmission controller, kick down, transmission disconnect and FNR switch in loader control lever includes auto shift mode and direct drive

Front axle:

- 4WD heavy-duty mechanically driven front axle with 14.0 L x 17.5 tires, limited slip differential and drive shaft guard Bear axle:
- 4WD heavy-duty outboard planetary drive, with 21.0 L x 24.0 tires
- Torque converter 12 in (305 mm)
- On-the-go electric 4WD control
- Electric F/R shuttle control
- Electric differential lock control, push-button
- Park brake, spring-applied, hydraulic release SAHR

HYDRAULICS

Ground level remote hydraulic test ports Variable displacement axial piston pump Pump: 41 gpm @ 3,000 psi

(156.2 L/min @ 207 bar) Heavy-duty hydraulic oil cooler

7-micron, spin on oil filter

LOADER

Bucket position indicator; Lifting lugs on standard bucket; Single lever control with self-leveling and return-to-dig; Hand operated clutch disconnects on loader and shift levers, single lever 4-function loader control: lift, dump, clutch cut-out, differential lock and FNR switch

BACKHOE

Over center design, Fabricated "S" boom; Pro Control System; Dipperstick integrated serrated gripper teeth; Case mechanical coupler; Power Lift, Power Boost

OTHER

Front tire 12.5/80 x 18.0, 10-PR Rear tire 21.0 L x 24.0, 10-PR Forward tilt engine hood Replaceable, molded front bumpers Front/Rear tie downs Reflective logos Signal Lights - cab and canopy: 2 rear tail/stop 2 front flashers/turn 2 rear flashers/turn Working/Driving Lights - cab and canopy: Adjustable halogen work lights - 55 W: 4 front 2 side - one left, one right 4 rear Master disconnect switch and remote jump-start terminals Hydrostatic steering Backup alarm Vertical spin-on engine oil, fuel and hydraulic filters

TELEMATICS

CASE SiteWatch™ Telematics – includes hardware and a 3-yr Advanced data subscription

WARRANTY

- 1-Year/Unlimited-Hour Full-Coverage Base Limited Warranty
- 2-Year/2,000-Hour Extended Engine Warranty

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Speed selectable Auto Ride Control

- Comfort Steering with two-speed steering pump and 3rd/4th gear cutout
- Deluxe Canopy with glass windshield, windshield wiper, windshield washer, floor mat. 85 dba sound level, two additional front lights, two additional rear lights and anti-vandalism cover
- ROPS/FOFS certified protective cab available in LH Door or 2 door with heat, A/C, defroster, door activated dome light, 4 front, 4 rear and 2 adjustable side lights, tilt steering wheel, floor mat, tinted glass, radio ready, front and rear wiper and fender extensions
- Deluxe Cab package with deluxe interior, viscous fan, pull-down sun visor and 72 dba sound level
- Mechanical suspension seat with flip-up armrests, 180° swivel, adjustable seat and weight, backrest angle, lumbar and cushion angle - cab units cloth or vinyl, canopy units vinyl only
- Air suspension seat with flip-up armrests, 180° swivel, electric height adjustment, adjustable back rest and lumbar and cushion angle - cab units cloth or vinyl, canopy units vinyl only
- Heated seat option for vinyl and cloth Air suspension seats - cab units cloth or vinyl, canopy units vinyl only
- Premium multi-color, hand stitched cloth, heated air suspension seat - not for use with ROPS Canopy option
- Bluetooth Radio Communication and Media streaming, Sirius XM satellite radio ready does not include satellite antenna, AM/FM tuner, NOAA weatherband tuner, USB input and audio Aux-in
- 3 in (75 mm) seat belt for mechanical and air suspension seat

ENGINE

Cold Weather Starting Aid:

CaseCE.com

Form No. CCE201810580SNWT

Replaces Form No. CCE201807580SNWT

- Dual 12 volt batteries, glow plugs, engine block heater and heated CCV hose
- Severe Cold Weather Starting Aid: Synthetic transmission, hydraulic and engine oil - order with cold weather starting aid

©2018 CNH Industrial America LLC. All rights reserved. CASE is a

trademark registered in the United States and many other countries.

affiliates. CNH Industrial Capital is a trademark in the United States

and many other countries, owned by or licensed to CNH Industrial

N.V., its subsidiaries or affiliates. Printed in U.S.A. Contains 10%

owned by or licensed to CNH Industrial N.V., its subsidiaries or

DRIVETRAIN

Power Shuttle, 4F-4R Synchromesh transmission, manual gear shift, fully synchronized

PowerDrive H-Type transmission, 4F-4R hydraulic clutch shifting with auto function and direct drive

LOADER

Auxiliary hydraulics for loader-mounted equipment with thumb-operated proportional control

Hydraulic front quick coupler

Tool portfolio of additional attachments Buckets - see page 2

BACKHOE

- 1-way Auxiliary backhoe hydraulics for hammers, plate compactors or similar 1-way flow attachments
- 1-way/2-way Auxiliary backhoe hydraulics for hammers, plate compactors or similar 1-way flow attachments or switch to 2-way flow for thumbs, augers or similar 2-way flow attachments
- Extendahoe®
- Bolt-on hardened gripper teeth
- Two-lever control backhoe or Extendahoe®
- Pilot operated control system:
 - Fingertip proportional Electro-Hydraulic stabilizer controls
 - Thumb-operated proportional Electro-Hydraulic Extendahoe® control
 - Thumb-operated horn button
 - Thumb-operated auxiliary hydraulic control Infinitely adjustable towers
 - In-cab switchable "excavator to backhoe" control pattern change
- Hydraulic bucket quick coupler
- Universal coupler CAT/Deere compatible
- Flip over stabilizer pads
- Cemetery/Street pads
- Buckets see page 2
- Hydraulic thumb Includes: 2 replaceable, high strength, bolt on tines with two positions for Universal or Hi-Cap buckets - meshes with Bucket teeth on 18 in & 24 in Buckets

OTHER

Front tires: 12.5/80 x 18, 10 PR Rear tires: 21 L x 24, 10 PR Special paint Tool box - bolt-on, step-mounted Front counterweights: 700 lb and 1,100 lb (318 kg and 500 kg) Rotating beacon LED Working/Driving Light Package: 4 front 4 rear 2 side Chaff Screen - Additional fine mesh screen in front of standard grille Locking DEF/Fuel covers Front Fenders



post-consumer fiber.

IMPORTANT: CASE Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Availability of some models and equipment builds vary according to the country in which the equipment is used. The illustrations and text may include optional equipment and accessories and may not include all standard equipment. Your CASE dealer/distributor will be able to give you details of the products and their specifications available in your area.



CASE Construction Equipment is biodieselfriendly. NOTE: All engines meet current EPA emissions regulations. All specifications are stated in accordance with SAF Standards or Recommended Practices, where applicable.

▲ 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.