



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 Maximum torque @ 1400 F	97 hp (72 kW) 95 hp (71 kW) RPM:		
Gross Net	334 lb∙ft (453 N·m) 333 lb∙ft (452 N·m)		
Torque rise at rated speed	45% +/- 5%		
Radiator: Core type Core size area Rows of tubes	Square wave 486 in² (3 145 cm²) 4		
39° fan: Style Diameter Ratio**	9 blade suction 19.65 in (499 mm) 1.4:1		
Pump operating angle ratir Side to side Fore and aft Oil filtration	ngs: Rated 35° Rated 35° Replaceable, full flow cartridge		

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

**Viscous fan.

DRIVETRAIN

Transmission – standard: 4F-4R Power Shuttle Synchromesh Transmission manual gear shift, fully synchronized Gear ratios - Power Shuttle Forward/Reverse 1st 5.603/4.643 2nd 3.481/2.884 3rd 1.584/1.313 4th 0.793/0.657 Travel speeds - Standard Power Shuttle Transmission Forward Reverse mph (kph) mph (kph) 1st 3.8 (6.1) 4.5 (7.3) 2nd 6.0 (9.7) 7.2 (11.6) 3rd 13.1 (21.1) 15.7 (25.3) 4th 24.6 (39.6) 29.5 (47.5) Transmission - optional: PowerDrive H-Type, 4F-4R hydraulic clutch shifting w/ auto shift mode and direct drive Gear Ratios - H Type Forward/Reverse 5 533/4 549 1st 2nd 3.359/2.762 1.533/1.260 3rd 4th 0.811/0.667 Travel speeds - Optional H-Type PowerDrive Forward **DD** Transmission Reverse mph (kph) mph (kph) 1st 3.9 (6.2) 4.6 (7.4) 2nd 6.3 (10.1) 7.5 (12.1) 3rd w/ DD Feature Off 13.6 (21.9) 16.4 (26.3) 3rd w/ DD 14.2 (22.8) 17.0 (27.4) 4th w/ DD Feature Off 24.2 (39.0) 29.0 (46.7) 4th w/ DD 25.0 (40.2) 29.8 (48.0) Torque converter ratio 2.2 Differential-lock: On-the-go push-button activation Front/Rear axle (w/ 4WD 12x16.5 front tires): Differential ratio 2.0/2.5 Planetary hub ratio 6.0/6.4 Total reduction ratio 12.0/16.0 Service brakes: Individually applied, power assisted, hydraulically actuated, maintenance-free, self-adjusting, outboard mounted, wet disc, 2 per side. Total disc area 384 in² (0.25 m²) Parking brakes **Trans Mounted** spring-applied hydraulic release - SAHR

NOTE: Travel speeds at 2312 engine RPM specified: w/ 19.5 L x 24.0 tires.

5805N CONSTRUCTION KING BACKHOE LOADER TIER 4 FINAL CERTIFIED

ELECTRICAL Voltage 12 Volts, negative ground Alternator 160 amp Dual batteries: 850 cold-cranking amps each Power plugs - 2 30 amps total

OPERATOR ENVIRONMENT

ng wheel on cab models.
vater temperature; Converter oil ture; Fuel level; Tachometer/ er; DEF level.
ights: eer restriction; Alternator; A/C high e; Cold start; Engine oil pressure; c oil filter bypass; Parking brake nent; Low fuel; Water in fuel; Low DEF.
larms w/ diagnostics: temperature; Engine oil pressure; brake engagement; Converter oil ture; Shuttle engagement/seat ; Backup alarm; Low DEF.
Dual switched front and rear

Configuration 1 – SAE Transport:

No Operator, Loader Bucket, Cab, AC, 1,100 lb front counter weight, 2WD, Full of Fuel, SAE Carry T4 Final Engine, Pilot Controls, 11 L – 16 @ 52 psi front tires, 19.5 L – 24 Rear Tires.

17,810 lb (8 078 kg)

Configuration 2 – SAE Transport: No Operator, 4:1 Loader Bucket, E-hoe, Cab, 1,100 lb front counter weight, Full of Fuel, SAE Carry T4 Final Engine, Pilot Controls, 12 x 16.5 @ 50 psi front tires, 4WD w/ driveshaft guard, 19.5 L – 24 @ 30 psi rear tires. 19,750 lb (8 958 kg)

Add-on weights:	
Cab-over canopy	309 lb (140 kg)
Fabricated stabilizer pads	141 lb (64 kg)
Extendahoe®	286 lb (130 kg)

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HYDRAULICS

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Bosch Rexroth Series 31 Variable Displacement Axial Piston Pump

Main relief pressure:	
Standard	3,450 +/- 50 psi
	(238 +/- 3.5 bar)
Power Lift	3,625 +/- 50 psi
	(250 +/- 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 @ 2,340 psi (0 - 156.2 L/min @ 161 bar)

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	125 qt (118.0 L)
w/ Extendahoe®	131 qt (123.6 L)
Reservoir w/ filter	53 qt (50.5 L)
Reservoir w/o filter	55 qt (52.4 L)
Transmission – total system:	
2WD Standard	18 qt (17.0 L)
4WD Standard	21 qt (19.4 L)
4WD PowerDrive H-Type	19 qt (18.0 L)

Standard front axle:	
4WD Differential	8.1 qt (7.7 L)
4WD Planetaries – each	0.5 qt (0.5 L)
Rear axle:	
Differential and planetaries	14.4 qt (13.6 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

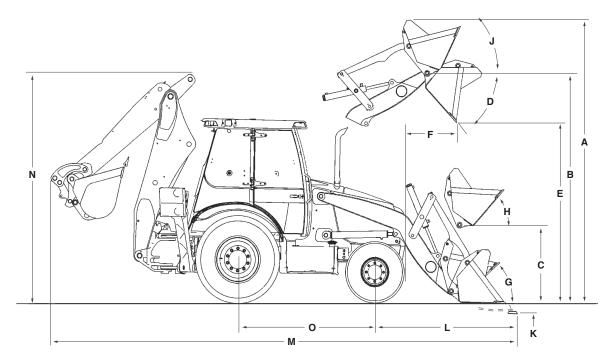
rear tires.

Front tires:			
2WD	11.0 L x 16.0, 10-ply rating		
4WD	12.0 L x 16.5, 10-ply rating		
4WD	12.5/80 x 18.0 10-ply rating		
Rear tires:			
2/4WD	19.5 L x 24.0, 10-ply rating		
2/4WD	500/70 R24, 10-ply rating		
Turning radius: Co	urb to Curb:		
2WD:			
Brakes on	10 ft 8 in (3.24 m)		
Brakes off	12 ft 4 in (3.76 m)		
4WD - engaged*:			
Brakes on	11 ft 4 in (3.45 m)		
Brakes off	13 ft 10 in (4.21 m)		
4WD – disengage	ed*:		
Brakes on	11 ft 0 in (3.36 m)		
Brakes off	12 ft 3 in (3.72 m)		
NOTE: *Turning radius dimensions curb to curb			
w/ 12.0 x 16.5 front tires and 19.5 L x 24.0			

LOADER BUCKET SIZES Width **Heaped Capacity** Type Weight Struck Long Lip Bucket: without bolt-on edge 82 in (2.08 m) 864 lb (392 kg) 0.88 yd³ (0.67 m³) 1.0 yd³ (0.79 m³) with bolt-on edge 93 in (2.36 m) 1,188 lb* (539 kg) 1.10 yd3 (0.89 m3) 1.3 yd³ (0.99 m³) 0.85 yd3 (0.65 m3) 4 IN 1[®] Bucket with bolt-on edge 82 in (2.08 m) 1,572 lb* (713 kg) 1.0 yd³ (0.80 m³)

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 ft3 (0.29 m3)
	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.

LOADER DIMENSIONS		
	Long Lip Bucket	4 IN 1 [®] Bucket
A. Overall operating height – fully raised	13 ft 9 in (4.18 m)	13 ft 8 in (4.16 m)
Height to:		
B. Bucket hinge pin fully raised	11 ft 3 in (3.42 m)	11 ft 3 in (3.42 m)
C. Bucket hinge pin at SAE carry	13.6 in (345 mm)	13.6 in (345 mm)
D. Dump angle at full height	47°	47°
E. Dump clearance at full height, 45° dump:		
Bucket	8 ft 10 in (2.69 m)	8 ft 11 in (2.71 m)
Clam open		9 ft 8 in (2.96 m)
F. Dump reach at full height, 45° dump – from bumper:		
Bucket	31.5 in (801 mm)	29.1 in (738 mm)
Clam open		15.3 in (388 mm)
Bucket rollback: G. @ Groundline	42°	42°
H. @ SAE carry	42°	42 42°
J. @ Full height	Adjustable	Adjustable
K. Digging depth below grade:		
Bucket flat	6.1 in (155 mm)	4.8 in (122 mm)
Clam open – dozing		4.1 in (103 mm)
L. Reach from front axle centerline – bucket on ground	6 ft 10 in (2.07 m)	6 ft 8 in (2.03 m)
Lift capacity to full height - calculated values	7,044 lb (3 195 kg)	6,703 lb (3 040 kg)
Breakout force:		
Lift cylinders	9,833 lb (4 460 daN)	9,610 lb (4 359 daN)
Dump cylinders	10,947 lb (4 965 daN)	11,658 lb (5 288 daN)
Bucket cutting edge width	82.5 in (2.09 m)	82.0 in (2.08 m)
Maximum grading angle	114°	114°
Maximum clam opening	_	38.3 in (972 mm)
Moldboard height	_	36.8 in (934 mm)
Raising time to full height – manual/pilot controls	2.6/3.2 sec	2.6/3.2 sec
Bucket dumping time	0.8/1.2 sec	0.8/1.2 sec
Lowering time:		
Power down	1.9/2.1 sec	1.9/2.1 sec
Return-to-dig	2.5/2.2 sec	2.5/2.2 sec
Clam:		
Open time	—	1.1 sec
Close time	_	1.1 sec

NOTE: Loader dimensions taken with 4WD, 12.0 x 16.5 front tires and 19.5 L x 24.0 rear tires.

DIMENSIONS		
	2WD with 17.5 L x 24.0 rear tires	4WD with 19.5 L x 24.0 tires
M. Overall transport length:		
Long Lip bucket with Quick Coupler	23 ft 5 in (7.14 m)	23 ft 4 in (7.10 m)
4 IN 1 [®] bucket with Quick Coupler	23 ft 3 in (7.07 m)	23 ft 1 in (7.04 m)
Long Lip bucket with Straight Links	23 ft 6 in (7.15 m)	23 ft 4 in (7.12 m)
4 IN 1 [®] bucket with Straight Links	23 ft 3 in (7.09 m)	23 ft 2 in (7.06 m)
Overall transport width	7 ft 2 in (2.17 m)	7 ft 2 in (2.17 m)
Height:		
To top of canopy	8 ft 8 in (2.64 m)	8 ft 9 in (2.66 m)
To top of cab	8 ft 9 in (2.68 m)	8 ft 11 in (2.72 m)
To top of exhaust stack	8 ft 5 in (2.58 m)	8 ft 7 in (2.62 m)
N. Transport	10 ft 10 in (3.29 m)	11 ft 1 in (3.37 m)
Ground clearance at backhoe frame	12 in (304 mm)	15.0 in (381 mm)
Angle of departure	15.3°	19.0°
Front wheel tread:		
11.0 L x 16.0	67.5 in (1.72 m)	67.5 in (1.72 m)
12.0 L x 16.5	67.7 in (1.72 m)	67.7 in (1.72 m)
12.5/80 x 18.0	70.3 in (1.79 m)	70.3 in (1.79 m)
19.5 L x 24.0	61.2 in (1.55 m)	61.2 in (1.55 m)
17.5 L x 24.0	63.1 in (1.60 m)	63.1 in (1.60 m)
Width over tires:		
11.0 L x 16.0	79.3 in (2.02 m)	79.3 in (2.02 m)
12.0 L x 16.5	81.1 in (2.06 m)	81.1 in (2.06 m)
12.5/80 x 18.0	82.9 in (2.10 m)	82.9 in (2.10 m)
19.5 L x 24.0	81.4 in (2.07 m)	81.4 in (2.07 m)
17.5 L x 24.0	81.7 in (2.07 m)	81.7 in (2.07 m)
O. Wheelbase:		
19.5 L x 24.0	84.0 in (2.13 m)	84.5 in (2.15 m)
17.5 L x 24.0	84.0 in (2.13 m)	84.5 in (2.15 m)

CYLINDERS				
	Bore Diameter	Rod Diameter	Stroke	Closed Length
Loader:				
Lift – 2	3.25 in (82.6 mm)	1.75 in (44.5 mm)	28.86 in (733.0 mm)	42.95 in (1 062.0 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	4.50 in (114.3 mm)	2.25 in (57.2 mm)	21.37 in (542.9 mm)	33.87 in (860.2 mm)

AXLE RATINGS			
	Front – 2WD	Rear	Front – 4WD
Maximum static	70,821 lb (32 124 kg)	90,145 lb (40 889 kg)	64,613 lb (29 308 kg)
Dynamic operating	44,261 lb (20 076 kg)	56,200 lb (25 492 kg)	39,328 lb (17 839 kg)
Static operating	17,704 lb (8 030 kg)	22,480 lb (10 197 kg)	15,732 lb (7 136 kg)
Oscillation – front axle	22° total – 11° side to side	_	22° total – 11° side to side

	Standard 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)	2,298 (1 043)
+14 ft (4.27 m)	3,039 (1 378)	3,285 (1 490)	2,837 (1 287)	3,083 (1 398)	2,395 (1 086)	2,603 (1 181)
+12 ft (3.66 m)	3,413 (1 548)	3,691 (1 674)	3,201 (1 452)	3,479 (1 578)	2,536 (1 151)	2,757 (1 250)
+10 ft (3.05 m)	3,499 (1 587)	3,784 (1 716)	3,281 (1 488)	3,566 (1 618)	2,593 (1 176)	2,818 (1 278)
+8 ft (2.44 m)	3,485 (1 581)	3,768 (1 709)	3,263 (1 480)	3,546 (1 608)	2,564 (1 163)	2,786 (1 264)
+6 ft (1.83 m)	3,438 (1 559)	3,717 (1 686)	3,213 (1 457)	3,492 (1 584)	2,549 (1 156)	2,770 (1 257)
+4 ft (1.22 m)	3,374 (1 530)	3,648 (1 655)	3,146 (1 427)	3,420 (1 551)	2,521 (1 144)	2,741 (1 243)
+2 ft (0.61 m)	3,307 (1 500)	3,575 (1 622)	3,077 (1 396)	3,345 (1 517)	2,489 (1 129)	2,706 (1 227)
Ground Level	3,251 (1 475)	3,513 (1 594)	3,018 (1 369)	3,280 (1 488)	2,489 (1 129)	2,706 (1 227)
-2 ft (0.61 m)	3,201 (1 452)	3,459 (1 569)	2,965 (1 345)	3,223 (1 462)	2,466 (1 118)	2,680 (1 215)
-4 ft (1.22 m)	3,175 (1 440)	3,430 (1 556)	2,935 (1 331)	3,190 (1 447)	2,446 (1 109)	2,659 (1 206)
-6 ft (1.83 m)	3,182 (1 443)	3,437 (1 559)	2,938 (1 333)	3,193 (1 448)	2,443 (1 108)	2,656 (1 205)
-8 ft (2.44 m)	3,258 (1 478)	3,520 (1 597)	3,007 (1 364)	3,269 (1 483)	2,465 (1 118)	2,679 (1 215)
-10 ft (3.05 m)	3,441 (1 561)	3,717 (1 686)	3,175 (1 440)	3,451 (1 565)	2,530 (1 148)	2,750 (1 248)
-12 ft (3.66 m)	_	_	-	_	2,707 (1 228)	2,943 (1 335)
-14 ft (4.27 m)	_	_	-	_	3,239 (1 469)	3,521 (1 597)
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 (4.41 m)	14 ft 6 in (4.41 m)	17 ft 11 in (5.47 m)
Maximum with hi-capacity bucket	15 ft 0 in (4.51 m)	15 ft 0 in (4.51 m)	18 ft 6 in (5.63 m)
2 ft (610 mm) flat bottom	14 ft 4 in (4.37 m)	14 ft 4 in (4.37 m)	17 ft 10 in (5.43 m)
8 ft (2.44 m) flat bottom	13 ft 4 in (4.06 m)	13 ft 4 in (4.06 m)	17 ft 1 in (5.19 m)
Overall reach from:			
Rear axle centerline	21 ft 10 in (6.66 m)	21 ft 10 in (6.66 m)	25 ft 3 in (7.69 m)
Swing pivot	18 ft 2 in (5.55 m)	18 ft 2 in (5.55 m)	21 ft 7 in (6.58 m)
Loading height	12 ft 1 in (3.67 m)	12 ft 1 in (3.67 m)	14 ft 5 in (4.38 m)
Loading reach	4 ft 7 in (1.41 m)	4 ft 7 in (1.41 m)	7 ft 3 in (2.20 m)
Swing arc	180°	180°	180°
Bucket rotation:			
Straight links	175.6°	175.6°	175.6°
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	9 ft 3 in (2.82 m)	9 ft 3 in (2.82 m)	9 ft 3 in (2.82 m)
Cast pad	9 ft 7 in (2.93 m)	9 ft 7 in (2.93 m)	9 ft 7 in (2.93 m)
Digging force:			
Bucket cylinder – SAE rated 3,460 psi	13,975 lb (61 363 N)	13,975 lb (61 363 N)	13,975 lb (61 363 N)
Bucket cylinder – Power Lift	14,452 lb (64 240 N)	14,452 lb (64 240 N)	14,452 lb (64 240 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	9,070 lb (40 345 N)	9,070 lb (40 345 N)	6,606 lb (29 382.7 N)
Leveling angle:			
Flip pad	11.8°	11.8°	11.8°
Cast pad	12.8°	12.8°	12.8°

NOTE: Lift capacities apply straight to the rear of prime mover. 4WD with 19.5 L x 24.0 tires equipped with 24 in (610 mm) heavy-duty 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 de-aeration 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** Cold Weather Starting Aid: Dual 12 volt batteries, glow plugs, engine block heater and heated CCV hose DRIVETRAIN Power Shuttle 4F-4R synchromesh

2 Power Shuttle transmission

Front axle:

- 2WD front axle with 11.0 L x 16.0 tires 4WD mechanically driven front axle with 12.0 L x 16.5 tires and drive shaft guard
- Rear axle:
- 2/4WD heavy-duty outboard planetary drive, with 19.5 L x 24.0 tires
- Torque converter 11.8 in (300 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

Drive shaft guard – 4WD models

HYDRAULICS

Ground level remote hydraulic test ports Pump: 41 apm @ 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 and tie downs 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

BACKHOE

Over center design, Fabricated "S" boom; Pro Control System; Dipperstick integrated serrated gripper teeth; Case mechanical coupler Cleated dirt stabilizer pads

OTHER

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 Hvdrostatic steering Backup alarm Vertical spin-on engine oil, fuel and hydraulic filters Locking DEF/Fuel covers Tool box - bolt-on, step-mounted

TELEMATICS

CASE SiteWatch™ Telematics – includes hardware and a 5-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 -4WD models

- Comfort Steering with two speed steering pump and 3rd/4th gear cutout
- ROPS/FOPS 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, floor mat, tinted glass, bluetooth radio, front and rear wiper and fender extensions
- Deluxe Cab package included on 2-door cabs includes: deluxe interior, viscous fan, pull-down sun visor and 72 dba sound level
- Premium multi-color, hand stitched cloth, heated air suspension seat - not for use with ROPS Canopy option

ENGINE

Severe Cold Weather Starting Aid: Synthetic transmission, hydraulic and engine oil - order with cold weather starting aid

DRIVETRAIN

- PowerDrive H-Type transmission, 4F-4R, hydraulic clutch shifting, kick down, transmission disconnect and FNR switch in loader control lever, includes auto shift mode and direct drive
- 4WD heavy-duty mechanically driven front axle with 12.5/80 x 18.0 tires

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®

Power Lift

- Power Boost
- 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
- Flip over stabilizer pads
- Hydraulic bucket quick coupler
- Universal coupler CAT/Deere compatible

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:

11.0 L x 16.0 or 12.0 L x 16.5 12.5/80 x 18.0 10-ply includes heavy duty front axle

- 500/70 R24 Michelin or 19.5 L x 24.0
- LED Working/Driving Light Package:
- Front Fenders
- Special Feature Request

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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.

Rear tires: Special paint 4 front 4 rear 2 side