



## ENGINE

Model	FPT F5HFL463D
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 <sup>3</sup> (3.4 L)
Fuel injection	Direct, high pressure common rail – HPCR
Fuel	Diesel
Engine speeds*	RPM
Rated speed – full load	2200
Low idle	900 – 1000
High idle – no load	2330 – 2430
Horsepower @ 2200 RPM:	
Gross	74 hp (55 kW)
Net w/ viscous fan**	72 hp (54 kW)
Net	68 hp (51 kW)
Maximum torque @ 1400 RPM:	
Gross	233 lb-ft (316 N-m)
Net w/ viscous fan	228 lb-ft (310 N-m)
Net	220 lb-ft (298 N-m)
Torque rise at rated speed	35% +/- 5%
Radiator:	
Core type	Square wave
Core size area	486 in <sup>2</sup> (3 145 cm <sup>2</sup> )
Rows of tubes	5
39° fan:	
Style	7 blade suction
Diameter	19.65 in (499 mm)
Ratio	1.1:1
Pump operating angle ratings:	
Side to side	Rated 35°
Fore and aft	Rated 35°
Oil filtration	Replaceable, full flow spin on

NOTE: \*Meets federal emission regulations.

\*\*Viscous fan available as DIA  
w/ High Ambient Kit.

## DRIVETRAIN

Transmission – standard:  
4F-4R Power Shuttle Synchronesh Transmission  
manual gear shift, fully synchronized

Gear ratios	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 mph (kph)	Reverse mph (kph)
1st	3.5 (5.6)	4.2 (6.8)
2nd	5.5 (8.9)	6.6 (10.6)
3rd	11.8 (19.0)	14.1 (22.7)
4th	21.3 (34.3)	25.5 (41.0)

Torque converter ratio 3.2

Differential lock:

On-the-go push-button activation

Front/Rear axle (w/ 4WD 12x16.5 front tires):	
Differential ratio	2.2/2.75
Planetary hub ratio	6.0/6.4
Total reduction ratio	13.3/17.6

Service brakes:

Individually applied, power assisted,  
hydraulically actuated, maintenance-free,  
self-adjusting, outboard mounted, wet disc,  
2 per side.

Total disc area 384 in<sup>2</sup> (0.25 m<sup>2</sup>)

Parking brakes Trans Mounted  
spring-applied hydraulic release – SAHR

NOTE: Travel speeds at 2293 engine  
RPM specified: w/ 19.5 L x 24.0 tires.  
Speeds decrease w/ 17.5 L x 24.0 rear tires.

## ELECTRICAL

Voltage	12 Volts, negative ground
Alternator	120 amp
Battery	850 cold-cranking amps
Optional dual batteries:	850 cold-cranking amps each
Power plugs – 2	30 amps total

## OPERATOR ENVIRONMENT

ROPS/FOPS certified protective canopy;  
Rear fenders extensions; Coat hook w/  
garment strap; Interior rearview convex mirror;  
Mechanical suspension seat – 180° swivel – Vinyl;  
3 in (76 mm) retractable seat belt; Cup holder/  
storage tray mounted on left-hand fender;  
Right-hand storage compartment w/ lid,  
anti-vandalism dash cover, tilt steering wheel  
on cab models.

Gauges:

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

Warning lights:

Air cleaner restriction; Alternator; A/C high  
pressure; Cold start; Engine oil pressure  
low; Hydraulic oil filter bypass; Parking brake  
engagement; Low fuel; Water in fuel.

Audible alarms:

Coolant temperature; Engine oil pressure;  
Parking brake engagement; Shuttle  
engagement/seat position; Backup  
alarm; Converter temperature.

Horn Dual switched front and rear

## OPERATING WEIGHT

**Configuration 1 – SAE Transport:**

GP Loader Bucket, 2WD, Canopy, Boom  
Guard, Full of Fuel, SAE Carry, Tier 4 Final  
Engine, Extendahoe®, 4 Stick Mech BH,  
Standard Transmission, 19.5 L – 24 Rear Tires,  
900 lb Front Counterweight.

15,995 lb (7 255 kg)

**Configuration 2 – SAE Transport:**

GP Loader Bucket, 4WD, 2 Door Cab, AC,  
Boom Guard, Full of Fuel, SAE Carry, 24 in HD  
BH Bucket, Tier 4 Final Engine, Pilot Controls,  
Standard Dipper, Manual Transmission,  
19.5 – 24 Rear Tires, 900 lb Front  
Counterweight, 4WD Driveshaft Guard.

16,093 lb (7 300 kg)

**Add-on weights:**

Cab-over canopy 309 lb (140 kg)  
Fabricated stabilizer pads 141 lb (64 kg)  
Extendahoe® 285 lb (129 kg)

## HYDRAULICS

<b>Pump:</b> Parker P330 Single Section Gear Pump	
<b>Main relief pressure:</b> Standard 3,350 +/- 50 psi (231 +/- 3.5 bar)	
<b>Filtration:</b> 7-micron, return line, full flow, spin on element.	
<b>Oil cooler</b> Heavy-duty	
<b>Loader flow @ rated engine RPM:</b> 28.5 gpm @ 3,350 psi (108.0 L/min @ 231 bar)	
<b>Loader control valve:</b> Two or three-spool open center monoblock valve. Two and three-spool valves have a single lever manual control for lift and tilt functions. Three-spool valve uses a proportional Electro-Hydraulic control for the auxiliary function. The lift lever has a positive hold "Float" position and a "return-to-dig" feature.	
<b>Loader auxiliary hydraulics w/ proportional thumb switch w/ detent on loader control handle:</b> 0 – 28.5 gpm (0 – 108 L/min)	
<b>Backhoe flow @ rated engine RPM:</b> 28.5 gpm @ 3,350 psi (108 L/min @ 231 bar)	
<b>Manual backhoe control valve:</b> Six-spool monoblock open center control valve w/ seventh and eighth spool bolt-on sections. 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. 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

<b>Fuel tank</b>	30.0 gal (114.0 L)
<b>Hydraulic system:</b>	
Total	106 qt (100.0 L)
w/ Extendahoe®	112 qt (106.0 L)
Reservoir w/ filter	58 qt (55.0 L)
Reservoir w/o filter	56 qt (53.0 L)
<b>Transmission – total system:</b>	
2WD Standard	18 qt (17.0 L)
4WD Standard	21 qt (19.4 L)

<b>Front axle:</b>	
4WD Differential	5.8 qt (5.5 L)
4WD Planetaries – each	0.7 qt (0.7 L)
<b>Rear axle:</b>	
Differential and planetaries	14.4 qt (13.6 L)
<b>Engine oil w/ filter</b>	
	8.5 qt (8.0 L)
<b>Cooling system:</b>	
w/ heater	19.0 qt (18.0 L)
w/o heater	18.3 qt (17.3 L)
<b>Window washer reservoir</b>	
	3.0 qt (2.8 L)

## OTHER SPECIFICATIONS

<b>Front tires:</b>	
2WD	11.0 L x 16.0, 10-ply rating
4WD	12.0 L x 16.5, 8-ply rating

<b>Rear tires:</b>	
2/4WD	19.5 L x 24.0, 10-ply rating

### Turning radius: Curb to Curb:

<b>2WD:</b>	
Brakes on	10 ft 8 in (3.24 m)
Brakes off	12 ft 4 in (3.76 m)

<b>4WD – engaged*:</b>	
Brakes on	11 ft 4 in (3.45 m)
Brakes off	13 ft 10 in (4.21 m)

<b>4WD – disengaged*:</b>	
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 rear tires.

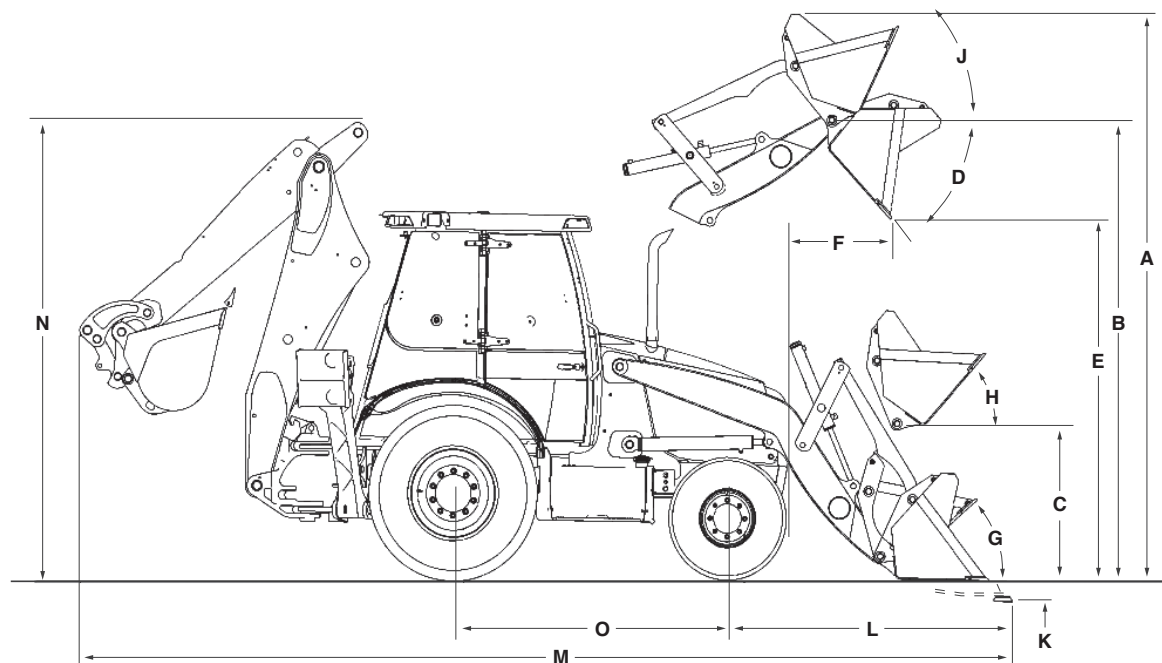
## LOADER BUCKET SIZES

Type	Width	Weight	Struck	Heaped Capacity
Long Lip Bucket without bolt-on edge	82 in (2.08 m)	683 lb (310 kg)	0.88 yd <sup>3</sup> (0.67 m <sup>3</sup> )	1.03 yd <sup>3</sup> (0.79 m <sup>3</sup> )
	93 in (2.36 m)	1,188 lb* (539 kg)	1.10 yd <sup>3</sup> (0.89 m <sup>3</sup> )	1.29 yd <sup>3</sup> (0.99 m <sup>3</sup> )
4 IN 1® Bucket with bolt-on edge	82 in (2.08 m)	1,572 lb* (713 kg)	0.85 yd <sup>3</sup> (0.65 m <sup>3</sup> )	1.05 yd <sup>3</sup> (0.80 m <sup>3</sup> )

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

## BACKHOE BUCKET SIZES

Type	Width	Weight	Heaped Capacity
General Purpose Trenching Buckets	18 in (457 mm)	232 lb (105 kg)	4.70 ft <sup>3</sup> (0.13 m <sup>3</sup> )
	24 in (610 mm)	272 lb (123 kg)	6.26 ft <sup>3</sup> (0.18 m <sup>3</sup> )
Universal Buckets	12 in (305 mm)	295 lb (134 kg)	3.40 ft <sup>3</sup> (0.10 m <sup>3</sup> )
	18 in (457 mm)	356 lb (162 kg)	5.30 ft <sup>3</sup> (0.15 m <sup>3</sup> )
	24 in (610 mm)	427 lb (194 kg)	7.70 ft <sup>3</sup> (0.22 m <sup>3</sup> )
	30 in (762 mm)	489 lb (222 kg)	10.20 ft <sup>3</sup> (0.29 m <sup>3</sup> )
	36 in (914 mm)	552 lb (251 kg)	12.70 ft <sup>3</sup> (0.36 m <sup>3</sup> )
High Capacity Buckets	24 in (610 mm)	447 lb (203 kg)	8.50 ft <sup>3</sup> (0.24 m <sup>3</sup> )



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

## LOADER DIMENSIONS

	Long Lip Bucket	4 IN 1® Bucket
<b>A.</b> Overall operating height – fully raised	13 ft 9 in (4.17 m)	14 ft 4 in (4.35 m)
Height to:		
<b>B.</b> Bucket hinge pin fully raised	11 ft 3 in (3.41 m)	11 ft 3 in (3.41 m)
<b>C.</b> Bucket hinge pin at SAE carry	12.8 in (326 mm)	14.6 in (371 mm)
<b>D.</b> Dump angle at full height	46°	46°
<b>E.</b> Dump clearance at full height, 45° dump:		
Bucket	8 ft 8 in (2.63 m)	8 ft 11 in (2.71 m)
Clam open	—	9 ft 8 in (2.93 m)
<b>F.</b> Dump reach at full height, 45° dump – from bumper:		
Bucket	26.7 in (679 mm)	26.2 in (666 mm)
Clam open	—	12.6 in (321 mm)
Bucket rollback:		
<b>G.</b> @ Groundline	40°	40°
<b>H.</b> @ SAE carry	43°	43°
<b>J.</b> @ Full height	Adjustable	Adjustable
<b>K.</b> Digging depth below grade:		
Bucket flat	7.8 in (199 mm)	7.1 in (180 mm)
Clam open – dozing	—	4.4 in (111 mm)
<b>L.</b> Reach from front axle centerline – bucket on ground	6 ft 10 in (2.08 m)	6 ft 8 in (2.03 m)
Lift capacity to full height	6,503 lb (2 950 kg)	6,537 lb (2 965 kg)
Breakout force:		
Lift cylinders	9,271 lb (4 124 daN)	8,904 lb (3 961 daN)
Dump cylinders	9,607 lb (4 273 daN)	10,302 lb (4 583 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	3.3 sec	3.3 sec
Bucket dumping time	0.8 sec	0.8 sec
Lowering time:		
Power down	2.4 sec	2.4 sec
Return-to-dig	4.4 sec	4.4 sec
Clam:		
Open time	—	1.3 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 19.5 L x 24.0 tires	4WD with 19.5 L x 24.0 tires
<b>M. Overall transport length:</b>		
Long Lip bucket with Universal Coupler	23 ft 1 in (7.02 m)	23 ft 0 in (7.00 m)
4 IN 1® bucket with Universal Coupler	22 ft 10 in (6.96 m)	22 ft 9 in (6.93 m)
Long Lip bucket with Straight Links	23 ft 2 in (7.04 m)	23 ft 0 in (7.00 m)
4 IN 1® bucket with Straight Links	22 ft 11 in (6.98 m)	22 ft 10 in (6.95 m)
Overall transport width – rear tires	7 ft 2 in (2.17 m)	7 ft 2 in (2.17 m)
Height:		
To top of canopy	8 ft 9 in (2.66 m)	8 ft 9 in (2.66 m)
To top of cab	8 ft 11 in (2.72 m)	8 ft 11 in (2.72 m)
To top of exhaust stack	8 ft 7 in (2.62 m)	8 ft 7 in (2.61 m)
<b>N. Transport - standard dipper</b>	10 ft 10 in (3.30 m)	11 ft 1 in (3.37 m)
Ground clearance at backhoe frame	15.0 in (380 mm)	15.0 in (380 mm)
Angle of departure	15.3°	19.0°
Front wheel tread:		
11.0 L x 16.0	67.5 in (1.71 m)	67.5 in (1.71 m)
12.0 L x 16.5	67.7 in (1.72 m)	67.7 in (1.72 m)
Rear wheel tread:		
17.5 L x 24.0	63.1 in (1.60 m)	63.1 in (1.60 m)
19.5 L x 24.0	61.2 in (1.55 m)	61.2 in (1.55 m)
Width over tires:		
11.0 L x 16.0	79.3 in (2.01 m)	79.3 in (2.01 m)
12.0 L x 16.5	81.1 in (2.06 m)	81.1 in (2.06 m)
17.5 L x 24.0	81.7 in (2.07 m)	81.7 in (2.07 m)
19.5 L x 24.0	81.4 in (2.07 m)	81.4 in (2.07 m)
<b>O. Wheelbase</b>	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)	30.2 in (766.0 mm)	40.80 in (1 036.0 mm)
Dump – 2	3.00 in (76.2 mm)	1.50 in (38.1 mm)	20.6 in (522.0 mm)	30.70 in (780.5 mm)
4 IN 1® clam – 2	3.00 in (76.2 mm)	1.75 in (44.5 mm)	9.18 in (230.6 mm)	19.69 in (498.3 mm)
Backhoe:				
Boom	4.50 in (114.3 mm)	2.25 in (57.2 mm)	38.25 in (971.6 mm)	52.82 in (1 341.6 mm)
Dipperstick	4.25 in (108.0 mm)	2.25 in (57.2 mm)	24.74 in (628.5 mm)	39.65 in (1 007.0 mm)
Bucket	3.25 in (82.6 mm)	2.25 in (57.2 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	3.75 in (95.3 mm)	2.00 in (50.8 mm)	11.50 in (292.0 mm)	24.44 in (620.8 mm)
Stabilizer – 2	4.00 in (101.6 mm)	2.00 in (50.8 mm)	21.78 in (553.3 mm)	33.80 in (858.5 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

## BACKHOE LIFT CAPACITIES

Standard Backhoe		Extendahoe®	
Boom Lift	Lift Capacity lb (kg)	Retracted Lift Capacity lb (kg)	Extended Lift Capacity lb (kg)
+16 ft (4.87 m)	—	—	1,693 (768)
+14 ft (4.27 m)	2,472 (1 121)	2,271 (1 030)	1,979 (897)
+12 ft (3.66 m)	2,857 (1 296)	2,644 (1 199)	2,124 (964)
+10 ft (3.05 m)	2,966 (1 345)	2,748 (1 246)	2,172 (985)
+8 ft (2.44 m)	2,983 (1 353)	2,761 (1 252)	2,169 (984)
+6 ft (1.83 m)	2,963 (1 344)	2,739 (1 242)	2,173 (985)
+4 ft (1.22 m)	2,929 (1 329)	2,701 (1 225)	2,165 (982)
+2 ft (0.61 m)	2,892 (1 312)	2,662 (1 207)	2,153 (977)
Ground Level	2,858 (1 297)	2,625 (1 191)	2,153 (977)
-2 ft (0.61 m)	2,834 (1 285)	2,598 (1 178)	2,145 (973)
-4 ft (1.22 m)	2,827 (1 282)	2,588 (1 174)	2,143 (972)
-6 ft (1.83 m)	2,853 (1 294)	2,609 (1 183)	2,154 (977)
-8 ft (2.44 m)	2,949 (1 338)	2,698 (1 224)	2,189 (993)
-10 ft (3.05 m)	3,319 (1 506)	3,053 (1 385)	2,270 (1 030)
-12 ft (3.66 m)	—	—	2,429 (1 102)
-14 ft (4.27 m)	—	—	3,115 (1 413)
Dipper Lift			
+14 ft (4.27 m)	—	—	3,154 (1 431)
+12 ft (3.66 m)	4,343 (1 970)	4,139 (1 877)	2,981 (1 352)
+10 ft (3.05 m)	4,027 (1 827)	3,826 (1 735)	2,823 (1 281)
+8 ft (2.44 m)	4,112 (1 865)	3,910 (1 774)	2,855 (1 295)
+6 ft (1.83 m)	4,563 (2 070)	4,357 (1 976)	3,010 (1 365)
+4 ft (1.22 m)	5,398 (2 449)	5,177 (2 348)	2,948 (1 337)
+2 ft (0.61 m)	—	—	3,486 (1 581)

## BACKHOE OPERATIONAL DATA\*

Standard Backhoe		Extendahoe®	
		Retracted	Extended
Digging depth:			
Maximum	15 ft 0 in (4.58 m)	15 ft 0 in (4.58 m)	18 ft 6 in (5.63 m)
2 ft (610 mm) flat bottom	14 ft 11 in (4.54 m)	14 ft 11 in (4.54 m)	18 ft 4 in (5.95 m)
8 ft (2.44 m) flat bottom	13 ft 11 in (4.24 m)	13 ft 11 in (4.24 m)	17 ft 7 in (5.36 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 (7.72 m)
Swing pivot	18 ft 6 in (5.65 m)	18 ft 6 in (5.65 m)	21 ft 11 in (6.68 m)
Loading height	11 ft 7 in (3.53 m)	11 ft 7 in (3.53 m)	13 ft 11 in (4.24 m)
Loading reach	4 ft 7 in (1.39 m)	4 ft 7 in (1.39 m)	7 ft 2 in (2.18 m)
Swing arc	180°	180°	180°
Bucket rotation:			
Straight links	175.6°	175.6°	175.6°
Mechanical coupler	198.0°	198.0°	198.0°
Universal coupler	190.0°	190.0°	190.0°
Stabilizer spread – centers:			
Flip pad	9 ft 5 in (2.87 m)	9 ft 5 in (2.87 m)	9 ft 5 in (2.87 m)
Cast Pad	9 ft 9 in (2.97 m)	9 ft 9 in (2.97 m)	9 ft 9 in (2.97 m)
Digging force – Quick Coupler:			
Bucket cylinder	11,517 lb (51 228 N)	11,517 lb (51 228 N)	11,517 lb (51 228 N)
Dipper cylinder	6,710 lb (29 484 N)	6,710 lb (29 484 N)	4,895 lb (21 738 N)
Leveling angle:			
Flip pad	12°	12°	12°
Cast pad	13°	13°	13°

NOTE: \*Dimensions taken with 2WD, 17.5 L x 24 Rear tires, Universal coupler.

## STANDARD EQUIPMENT

### OPERATOR ENVIRONMENT

See page 1

### ENGINE

FPT F5HFL463D diesel  
Full flow engine oil filter  
Aspirated air cleaner – replaceable dual element dry type with radial seal  
Fuel filter with water trap  
Diesel Oxidation Catalyst  
Radiator with de-aeration bottle  
Antifreeze to -34° F (-37° C)  
Throttles, both hand rotary and foot  
Self adjusting belt  
High Pressure Common Rail

### DRIVETRAIN

Front axle, as selected:  
2WD front axle with 11.0 L x 16.0 tires  
4WD mechanically driven front axle, with 12.0 L x 16.5 tires  
Rear axle:  
2/4WD heavy-duty outboard planetary drive, with 19.5 L x 24.0 tires  
4F-4R Power Shuttle  
Synchronesh transmission  
Torque converter – 11.8 in (300 mm)  
On-the-go electric 4WD control  
Electric F/R shuttle control  
Electric differential lock control, with push-button activation on the loader control lever  
Park brake, spring-applied, hydraulic release – SAHR  
Drive shaft guard – 4WD models

### HYDRAULICS

Pump:  
28.5 gal/min @ 3,350 psi  
(107.9 L/min @ 231 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 Swing dampening  
Cleated dirt stabilizer pads

### OTHER

Forward tilt engine hood  
Replaceable, molded front bumpers  
Front/Rear tie downs  
Reflective logos  
Working/Driving/Signal Lights – halogen:  
Canopy:  
2 headlights – clear/white  
2 rear flood lights – clear/white  
2 front flashers/turn signals – amber  
2 rear flashers/turn signals – amber  
2 rear tail/stop lights – red  
Cab:  
4 headlights – clear/white  
4 rear flood lights – clear/white  
2 side lights – clear/white  
2 front flashers/turn signals – amber  
2 rear flashers/turn signals – amber  
2 rear tail/stop lights – red  
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

ROPS/FOPS certified protective cab available in LH 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

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

### ENGINE

Cold Weather Starting Aid:

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

### 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®

Two-lever backhoe controls

Pilot operated control system:

Fingertip proportional Electro-Hydraulic stabilizer controls

Thumb-operated proportional

Electro-Hydraulic Extendahoe®

Thumb-operated auxiliary hydraulic control

Infinitely adjustable towers

In-cab switchable “excavator to backhoe” control pattern change

Flip over stabilizer pads

Case mechanical 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 10-ply or 12.0 L x 16.5 10-ply

Rear tires:

500/70 R24 Michelin XMCL Radial Tires

Special paint

LED Working/Driving Light Package:

4 front

4 rear

2 side

Front Fenders

Special Feature Request

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



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.

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