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Model	FPT F5HFL463D
Emissions Certification	Tier 4 Final
Type Diesel, 4-	-stroke, turbocharged
Cylinders	4
Bore/Stroke	3.9 in x 4.33 in
	(99 mm x 110 mm)
Displacement	207 in <sup>3</sup> (3.4 L)
Fuel injection	Direct high pressure
	common rail
Fuel	Diesel
Cooling	Charged air
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	68 hp (51 kW)
Maximum torque @ 1400 R	RPM:
Gross	233 lb·ft (316 N·m)
Net	220 lb·ft (298 N·m)
Torque rise at rated speed	35% +/- 5%
Radiator:	
Core size area	486 in <sup>2</sup> (3 145 cm <sup>2</sup> )
Rows of tubes	5
33° fan:	
Style	7 blade suction
Ratio	1.1:1
Engine oil CJ-4 – s	semi-synthetic 10W40
Pump operating angle ratin	igs:
Side-to-side	Rated 35°
Fore and aft	Rated 35°

Oil filtration Replaceable, spin-on NOTE: \*Meets federal emission regulations.

## DRIVETRAIN

Transmission – standard: 4F-4R Power Shuttle

Synchromesh Transmission manual gear shift fully synchronized

Gear ratios	Forward/Reverse
1st	5.603/5.603
2nd	3.481/3.481
3rd	1.584/1.584
4th	0.793/0.793
Travel speeds	mph (kph)
1st	3.8 (6.1)
2nd	6.1 (9.8)
3rd	12.8 (20.6)
4th*	24.0 (38.6)
Torque converter ratio	3.01
Differential lock	On-the-go
	push-button activation
Drive/steer axle:	
Differential ratio	2.5/2.0
Planetary hub ratio	6.4/6.0
Total reduction ratio	16.0/12.0
Service brakes:	
Individually applied by	draulically actuated

Individually applied, hydraulically actuated, outboard mounted, wet disc, 2 per side

Parking brakes Transmission Mounted spring applied hydraulic release – SAHR

NOTE: \*Travel speeds at 2330 engine RPM w/ 19.5 L x 24 tires.

### **ELECTRICAL**

Voltage	12 Volts
Alternator	120 amp
Battery	950 cold-cranking amps
Power plugs – 2	30 amps total

### **OPERATOR ENVIRONMENT**

ROPS/FOPS certified protective canopy; Wide walk through platform; Vinyl seat; 3 in (76 mm) seat belt; Molded front fenders; Rearview mirrors, left and right.

## Gauges:

Hour meter; Engine RPM; Engine coolant temperature; Transmission oil temperature; Job timer; Fuel level.

## Warning lights:

Air cleaner restriction; Alternator; Cold start; Engine oil pressure; Hydraulic oil filter bypass; Parking brake engagement; Engine coolant temp; Battery voltage.

#### Audible alarms:

Coolant temperature; Engine oil pressure; Parking brake engagement; Converter oil temperature; Backup; Horn.

## **OPERATING WEIGHT**

#### Configuration 1 - Lightest:

13,682 lb (6 206 kg) 2WD, 15 ft Std. Mast, 48 in forks

#### Configuration 2 - Heaviest:

14,621 lb (6 632 kg) 4WD, 22 ft Std. Mast, 48 in forks

# Add-on weights:

Masts:

15 ft Std. Mast	1,863 lb (845 kg)
22 ft Std. Mast	2,608 lb (1 183 kg)
Carriage - 60 in	110 lb (50 kg)
Forks:	
Hook style	322 lb (146 kg)
Shaft style	298 lb (135 kg)

## **HYDRAULICS**

Pump	Gear pump
Capacity	18 gal/min @ 3,000 psi
	(68 L/min @ 207 bar)

### SERVICE CAPACITIES

Fuel tank	31 gal (119 L)
Hydraulic system:	
Total	74 qt (70 L)
Reservoir w/ filter	58 qt (55 L)
Reservoir w/o filter	56 qt (53 L)
Transmission:	
2WD:	
Total	19.5 qt (18.5 L)
Reservoir	12.6 qt (11.9 L)
4WD:	
Total	22.0 qt (20.8 L)
Reservoir	15.2 qt (14.4 L)
Front axle:	
Differential and Planetaries	14.4 qt (13.6 L
Rear axle:	
Differential and Planetaries	5.8 qt (5.5 L)
	0.7 qt (0.7 L)
Engine oil w/ filter	8.5 qt (8.0 L)
Cooling system	18.3 qt (17.3 L)

#### Turning diameter: **OTHER SPECIFICATIONS** 2WD: Mast: w/ brakes 21 ft 8 in (6.57 m) Lift capacity to full height w/ 24 in load center: w/o brakes 26 ft 1 in (7.93 m) 15 ft Std. Mast 6,000 lb (2 722 kg) 4WD - engaged: 3,000 lb (1 361 kg) w/ brakes 20 ft 5 in (6.21 m) 22 ft Std. Mast w/o brakes 27 ft 10 in (8.47 m) Mast type: 4WD - disengaged: 15 ft Std. Mast 2 Stage Roller Mast w/ brakes 21 ft 6 in (6.61 m) 22 ft Std. Mast 3 Stage Roller Mast w/o brakes 26 ft 1 in (7.95 m) Lift speed: 15 ft Std. Mast 107 ft/min (0.55 m/s) 22 ft Std. Mast 112 ft/min (0.57 m/s) Tires: Front: 2/4WD 19.5 L x 24, 12-ply rating Rear: 2WD 11 L x 16, 10-ply rating 12 L x 16.5, 10-ply rating 4WD В С D G Line drawings are for illustrative purpose only and may not be exact representation of unit.

	15 ft (4.57 m) Std. Mast	22 ft (6.71 m) Std. Mast
A. Overall height to top of mast – mast closed	10 ft 7 in (3.23 m)	10 ft 7 in (3.23 m)
B. Overall operating height – mast raised to full height	18 ft 0 in (5.49 m)	25 ft 2 in (7.67 m)
C. Maximum fork height – forks horizontal  Maximum Freelift fork height	15 ft 0 in (4.57 m) 3 in (76 mm)	22 ft 0 in (6.71 m) 2 in (51 mm)
D. Overall height to top of ROPS:  19.5 L x 24, 12-ply	104.1 in (2 645 mm)	104.1 in (2 645 mm)
E. Overall length with 48 in forks	16 ft 2 in (4.93 m)	16 ft 3 in (4.95 m)
F. Wheelbase: 2WD 4WD	84 in (2.13 m) 84.5 in (2.15 m)	84 in (2.13 m) 84.5 in (2.15 m)
G. Ground clearance: 2WD 4WD	10.3 in (260 mm) 10.3 in (260 mm)	10.3 in (260 mm) 10.3 in (260 mm)
H. Forward mast tilt	45°	45°
. Backward mast tilt	15°	15°
Overall width – outside tires	7 ft 0 in (2 117 mm)	7 ft 0 in (2 117 mm)
Mast side shift – right	3 in (76 mm)	3 in (76 mm)
Mast side shift – left	3 in (76 mm)	3 in (76 mm)

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#### STANDARD EQUIPMENT

#### **ENGINE**

FPT 3.4 L Diesel

Cooled EGR

Diesel Oxidation Catalyst

Full flow engine oil filter

Air cleaner:

Replaceable dry type with radial seal

Radiator with de-aeration bottle

Antifreeze to -34°F (-37°C)

Foot throttle

Self adjusting belt

Insulated CCV hose

Glow Plugs

**Block Heater** 

Pre Cleaner

Master Disconnect Switch

Remote Jump Start Terminals for Battery

#### MAST

See page 1

### DRIVETRAIN

Front axle, as selected:

2/4WD heavy-duty outboard planetary drive, with 19.5 L x 24 tires

Rear axle:

2WD heavy-duty front axle with 11 L x 16 tires

4WD heavy-duty mechanically driven rear axle, with 12 L x 16.5 tires

4F-4R Power Shuttle

Synchromesh Transmission

Torque converter

On-the-Go electric 4WD control

Electric F/R shuttle control

Electric differential lock control,

with push-button activation

Park brake, spring applied, hydraulic release

#### **HYDRAULICS**

Heavy-duty hydraulic oil cooler 7 micron, spin-on oil filter

## **OPERATOR ENVIRONMENT**

See page 1

#### **OTHER**

Storage Compartment, lockable

Swing out side panel engine access

Front/rear tie downs

Reflective logos

Light Package:

2 front halogen driving lights

2 rear halogen work lights

1 rear tail/stop light

2 front turn signals

2 rear turn signals

Hazard warning

## OPTIONAL EQUIPMENT

## MAST/FORKS/CARRIAGE

15 ft Standard Mast

22 ft Standard Mast

48 in Pallet Forks, ITA Class 3 hook type

48 in Pallet Forks, shaft type

60 in Backrest

Other mast/fork/carriage combinations available through Special Feature

### **HYDRAULICS**

4 section valve for auxiliary hydraulics

### **OPERATOR ENVIRONMENT**

Load control

Deluxe suspension seat, with lumbar support and high adjustments

### **OTHER**

Special paint Sitewatch Telematics

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