**ENGINE**

<table>
<thead>
<tr>
<th>Model</th>
<th>FPT F5HFL463D</th>
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<tbody>
<tr>
<td>Emissions Certification</td>
<td>Tier 4 Final</td>
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<tr>
<td>Type</td>
<td>Diesel 4-stroke, Turbocharged</td>
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- **Cylinders**: 4
- **Bore/Stroke**: 3.90 x 4.33 in (99 x 110 mm)
- **Displacement**: 207 in³ (3.4 L)
- **Fuel injection**: Direct, high pressure common rail – HPCR
- **Fuel**: Diesel
- **Cooling**: Charged air
- **Engine speeds**: RPM
  - Rated speed – full load: 2200
  - Low idle: 900 – 1000
  - High idle – no load: 2350 – 2430
- **Horsepower @ 2200 RPM**:
  - Gross: 74 hp (55 kW)
  - Net*: 72 hp (54 kW)
- **Maximum torque @ 1400 RPM**:
  - Gross: 235 lb·ft (316 N·m)
  - Net*: 228 lb·ft (310 N·m)
- **Torque rise at rated speed**: 35% +/- 5%

**DRIVETRAIN**

- **Transmission – standard**: 4F-4R Power Shuttle Synchronesh
- **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
- **Front 4WD/Rear axle**:
  - Differential ratio: 2.0/2.5
  - Planetary hub ratio: 6.0/6.4
  - Total reduction ratio: 12.0/16.0
- **Axles rating**:
  - Maximum static – lb (kg):
    - 70,821 (32 124)/90,145 (40 889)/58,448 (26 511)
  - Dynamic operating – lb (kg):
    - 44,261 (20 076)/56,200 (25 492)/35,575 (16 136)
  - Static operating – lb (kg):
    - 17,704 (8 030)/22,480 (10 197)/14,230 (6 455)
- **Service brakes**: Individually applied, hydraulically actuated, maintenance-free, outboard mounted, wet disc, 2 per side.
- **Parking brakes**: Trans Mounted
  - spring-applied hydraulic release – SAHR

**OPERATOR ENVIRONMENT**

- **ROPS/FOPS certified protective canopy**
- **2 halogen headlights; 2 rear flood lights; 2 rear tail and stop lights; 2 front flashers/turn lights; 2 rear flashers/turn lights; Anti-vandalism cover for dash and front console – w/ canopy only**
- **Pre-wired for radio – cab only**
- **Rear fenders w/ storage tray and molded beverage and thermos holder; Coat hook w/ garment strap; Interior rearview mirror; non-suspension seat – 15 degree and 30 degree swivel to the right; 2 in (51 mm) retractable seat belt; Cup holder/storage tray mounted on LH fender.**

**ELECTRICAL**

- **Voltage**: 12 Volts
- **Alternator**: 120 amp
- **Battery**: 850 cold-cranking amps
- **Opt. batteries – 2**: 850 cold-cranking amps
- **Power plugs – 2**: 30 amps total

**OPERATING WEIGHT**

**Configuration 1 – Lightest**

- 82 in (2.08 m) Standard bucket, 4WD, 19.5 L x 24.0 rear tires, ROPS canopy, suspension seat, dual batteries, no operator:
  - 11,134 lb (5 051 kg)

**Configuration 2 – Heaviest**

- 82 in (2.08 m) 4 IN 1® bucket, 4WD, 19.5 L x 24.0 rear tires, enclosed cab, suspension seat, dual batteries, no operator, 440 lb front weight, 3-point hitch, box scraper:
  - 14,508 lb (6 581 kg)

**Attachments**

- 82 in (2.08 m) buckets: 4 IN 1® buckets:
  - 1,451 lb (658 kg)
  - General purpose: 686 lb (311 kg)
  - Box scraper: 1,592 lb (722 kg)

**Weights**

- **Counterweight**: 3,000 lb (1 360 kg)
- **Rear weight**: 500 lb (227 kg)
- **Front weight**: 440 lb (200 kg)
**HYDRAULICS**

- **Pump**: Gear pump
- **Capacity**: 28.5 gal/min @ 3,000 psi (108 L/min @ 207 ba)

**SERVICE CAPACITIES**

- **Fuel tank**: 30 gal (114.0 L)
- **Hydraulic system**:
  - **Total**: 72 qt (68.0 L)
  - **Reservoir w/ filter**: 58 qt (55.0 L)
  - **Reservoir w/o filter**: 56 qt (53.0 L)
- **Transmission**:
  - **2WD – total**: 18 qt (17.0 L)
  - **Reservoir**: 11 qt (10.4 L)
  - **4WD – total**: 21 qt (20.0 L)
  - **Reservoir**: 14 qt (13.2 L)
- **Front axle**:
  - **Differential**: 5.8 qt (5.5 L)
  - **Planetary – each**: 0.7 qt (0.7 L)
- **Rear axle**:
  - **Differential**: 14.4 qt (13.6 L)
- **Engine oil w/ filter**: 8.5 qt (8.0 L)
- **Cooling system**: 18.3 qt (17.3 L)

**Turning radius - curb to curb, no bucket:**

- **2WD**:
  - **Brakes on**: 12 ft 2 in (3.70 m)
  - **Brakes off**: 12 ft 10 in (3.91 m)
- **4WD – engaged:**
  - **Brakes on**: 11 ft 7 in (3.52 m)
  - **Brakes off**: 13 ft 9 in (4.18 m)
- **4WD – disengaged:**
  - **Brakes on**: 12 ft 3 in (3.72 m)
  - **Brakes off**: 12 ft 11 in (3.92 m)

**OTHER SPECIFICATIONS**

- **3-point hitch:**
  - **Category I & II 3-point hitch**
  - **Hydraulic lift, pitch, tilt and 2 auxiliary remotes**
- **Vertical lift force**:
  - **Lowest point**: 2,500 lb (11 121 N)
  - **1/5**: 3,247 lb (14 444 N)
  - **2/5**: 3,400 lb (15 125 N)
  - **3/5**: 3,501 lb (15 574 N)
  - **4/5**: 3,297 lb (14 666 N)
  - **Highest point**: 2,984 lb (13 274 N)
- **Front tires**:
  - **2WD – 11.0 L x 16.0, 10-ply rating**
  - **4WD – 12.0 L x 16.5, 8-ply rating**
- **Rear tires**:
  - **2/4WD – 19.5 L x 24.0, 10-ply rating**
  - **2/4WD – 17.5 L x 24.0, 10-ply rating**
**LOADER DIMENSIONS**

<table>
<thead>
<tr>
<th></th>
<th>19.5 L x 24.0 Tires</th>
<th>17.5 L x 24.0 Tires</th>
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<tbody>
<tr>
<td><strong>A. Height to:</strong></td>
<td></td>
<td></td>
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<tr>
<td>Top of canopy</td>
<td>9 ft 0 in (2.74 m)</td>
<td>8 ft 9 in (2.67 m)</td>
</tr>
<tr>
<td>Height to top of canopy – Low profile ROPS</td>
<td>8 ft 9 in (2.65 m)</td>
<td>8 ft 6 in (2.59 m)</td>
</tr>
<tr>
<td>Top of cab</td>
<td>9 ft 0 in (2.74 m)</td>
<td>8 ft 10 in (2.68 m)</td>
</tr>
</tbody>
</table>

| **B. Bucket hinge pin fully raised** |                     |                     |
| Long Lip Bucket | 11 ft 3 in (3.41 m) | 11 ft 3 in (3.41 m) |

| **C. Bucket hinge pin at SAE carry** |                     |                     |
| 1 ft 1 in (0.33 m) | 1 ft 3 in (0.37 m) |

| **D. Overall operating height – fully raised** |                     |                     |
| 13 ft 8 in (4.17 m) | 14 ft 3 in (4.35 m) |

| **E. Overall length with 3-point hitch** |                     |                     |
| 16 ft 11 in (5.15 m) | 16 ft 9 in (5.09 m) |

**Width over tires:**

| 11.0 L x 16.0 | 6 ft 8 in (2.02 m) | 6 ft 8 in (2.02 m) |
| 12.0 L x 16.5 | 6 ft 10 in (2.06 m) | 6 ft 10 in (2.06 m) |
| 19.5 L x 24.0 | 6 ft 10 in (2.07 m) | 6 ft 10 in (2.07 m) |
| 17.5 L x 24.0 | 6 ft 10 in (2.07 m) | 6 ft 10 in (2.07 m) |

| **F. Dump angle at full height** | 46° | 45° |

| **G. 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) |

| **H. Dump reach at full height, 45° dump:** |                     |                     |
| Bucket | 2 ft 2 in (0.66 m) | 2 ft 2 in (0.64 m) |
| Clam open | — | 11.9 in (0.3 m) |

**Bucket rollback:**

| J. at Groundline | 40° | 40° |

| K. at SAE carry | 45° | 45° |

| L. at Full height | Adjustable | Adjustable |

| **M. Digging depth below grade:** |                     |                     |
| Bucket flat | 7.5 in (0.19 m) | 6.8 in (0.17 m) |
| Clam open – dozing | — | 4.1 in (0.10 m) |

| **N. Wheelbase** | 7 ft 0 in (2.13 m) | 7 ft 0 in (2.13 m) |

| **O. Reach from front axle centerline – bucket on ground** |                     |                     |
| 6 ft 3 in (1.89 m) | 6 ft 1 in (1.85 m) |

| **Maximum clam opening** |                     |                     |
| — | 3 ft 3 in (0.97 m) |

| **Moldboard height** | — | 3 ft 1 in (0.93 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 (41,239 N) | 8,766 lb (38,993 N) |
| Dump cylinders | 9,607 lb (42,734 N) | 10,325 lb (45,928 N) |

**NOTE:** Loader dimensions taken with 4WD, 19.5 L x 24.0 rear tires and 82 in (2.08 m) general purpose bucket except as noted.
STANDARD EQUIPMENT

OPERATOR ENVIRONMENT
See page 1

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
Fuel filter with water trap

Front axle, as selected:
2WD heavy-duty front axle with 11.0 L x 16.0 tires
4WD heavy-duty mechanically driven rear axle, with 12.0 L x 16.5 tires
Rear axle:
2/4WD heavy-duty outboard planetary drive, with 17.5 L x 24.0 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; Located on the loader control lever and side console
Park brake, spring-applied, hydraulic release

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT
Manual Ride Control
Comfort Steer
ROPS and FOPS certified protective canopy:
Short and standard height
ROPS certified cab with heater, defroster, front and rear wipers and floor mat
Cab Convenience Package containing:
Flip forward sun visor; Window washer – front and rear; Radio Ready kit, including wiring, speakers and DIN radio mounting; Deluxe Interior Package
Air-conditioning for cab models
Mechanical suspension seat:
With armrests – 15° and 30° swivel to the right; Cloth or vinyl; Adjustable seat height, backrest angle; Lumbar and thigh support
Wide seat belt – 3 in (75 mm)

ENGINE
Cold Weather Starting Aid
with dual 12 Volt batteries and glow plugs
Block heater
Master disconnect switch and remote jump-start terminals

TRACTOR
Chaff screen – dealer installed option
Auxiliary work lights:
2 front and 2 rear flood for tall canopy and cab
Canopy sun visor – tall canopy only
440 lb (200 kg) front counterweight
Hand throttle – electric
500 lb (227 kg) counterweight, bolted to hitch frame
5th spool auxiliary circuit for 3-point hitch valve
Tool portfolio of additional attachments
3-point hitch with 600 lb (272 kg) Plug in hitch ears
Plug in hitch ears cannot be used with PTO
Driveshaft guard
3,000 lb (1 360 kg) rear counterweight
Drawbar
Rear wheel weights 564 lb (256 kg)
PTO:
540 RPM, hydraulically powered rear PTO Ready. PTO hydraulic pump only, no motor

LOADERS

TRACTOR
Loader linkage without loader bucket
Loader linkage without loader bucket

OTHER

Auxiliary hydraulics for loader-mounted equipment
Hydraulic front quick coupler
Mechanical front quick coupler

Auxiliary hydraulics for loader-mounted equipment

Buckets – less teeth:
82 in (2.08 m) general purpose Long Lip, with bolt-on cutting edge – includes lift eyes
82 in (2.08 m) general purpose Long Lip, without bolt-on cutting edge – includes lift eyes
82 in (2.08 m) 4 IN 1®, includes 3 Bolt-on cutting edges; Unit must be equipped with auxiliary loader hydraulics
93 in (2.36 m) light duty loader bucket
Loader linkage without loader bucket

Tool box – bolt-on step-mounted
Special paint
Spare tires

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4 of 4