**Engine**

**Transmission**

John Deere POWERTECHT™ Plus 6135H

Non-Road Emission Standards: Certified to EPA Tier 2 EU Stage II

Cylinders: 6

Valves Per Cylinder: 4

Displacement: 13.5 l

Net Peak Power: 248 kW @ 1 600 rpm

Net Peak Torque: 1 619 Nm @ 900 rpm

Fuel System: Mechanically actuated electronic unit injectors

Lubrication: Full-flow spin-on filter and integral cooler

Aspiration: Turbocharged, charge air cooled

Air Cleaner:

Dual element dry type, restriction indicator in cab

monitor for service

Fan Drive:

Hydraulically driven, proportionally controlled,

fan aft of coolers

Electrical System:

24 volt with 80-amp alternator (100-amp

alternator optional)

Batteries (2 by 12V): 1 400 CCA (each)

**Axles / Brakes**

Type: Countershaft-type PowerShift™

Torque Converter: Single stage, single phase

Shift Control:

Electronically modulated, adaptive, load and

speed dependent

Operator Interface:

Joystick-mounted F-N-R and gear select lever,

kick-down button on Joystick

Shift Modes:

Manual/auto (1st-4th or 2nd-4th); quick-shift

button with two selectable modes: kick down or

kick up/down; and three clutch cutoff settings

adjustable on switch pad

Travel Speeds

Forward Maximum

Gear 1: 8.3 km/h

Gear 2: 14.9 km/h

Gear 3: 23.1 km/h

Gear 4: 33.9 km/h

Gear 5: 40.0 km/h

Reverse Maximum

Gear 1: 8.3 km/h

Gear 2: 14.0 km/h

Gear 3: 33.9 km/h

Gear 4: NA

Gear 5: NA

Final Drives: Heavy-duty inboard planetary

Differentials: Hydraulic locking front, conventional rear

Rear Axle Oscillation, Stop to Stop: 26º

Brakes (conforms to SAE J1473, ISO3450)

Service Brakes:

Hydraulically actuated, inboard, sun-shaft

mounted, oil cooled, self adjusting,single disc

Parking Brakes:

Automatic spring applied, hydraulically released,

oil cooled, multi-disc

**Tyres**

**Refill Capacities**

**Hydraulic System / Steering**

Standard Size: 26.5 x 25, L5, 20 Ply

Fuel Tank (with ground-level fueling): 469 l

Cooling System: 47 l

Engine Oil with Vertical Spin-On Filter: 38 l

Transmission Fluid with Vertical Filter: 28 l

Axle Oil (front and rear): 46 l

Hydraulic Reservoir and Filters: 159 l

Park Brake Oil (wet disc): 0.7 l

**Material (Loose weight)**

Pump (loader and steering):

Two variable-displacement, load-sensing axialpiston

pump; closed-center system

Maximum Rated Flow: 513 l/m @ 6 895 kPa and 2 350 rpm

System Relief Pressure

(loader and steering):

25 166 kPa

Loader Controls:

Two-function valve; single- or dual-lever

controls; control lever lockout feature; optional

third- and fourth-function valve with auxiliary

lever

Steering (conforms to SAE J1511)

Type: Power, fully hydraulic

Articulation Angle: 80º arc (40º each direction)

Hydraulic Cycle Times Standard Z-Bar

Raise: 5.9 sec

Dump: 1.3 sec

Lower (float down): 2.5 sec

Total: 9.5 sec

Turning Radius (measured to centerline of

outside tyre)

6.32 m

**Standard Z-Bar Pin-On**

**Material (Loose**

**weight)**

**kg / m3**

**Material (Loose**

**weight)**

**kg / m3**

Caliche 1 250

Gravel, wet 1/2" (13 to

50 mm)

2 020

Cinders 590 Gypsum, crushed 1 600

Clay and gravel, dry 1 420

Limestone, broken or

crushed

1 540

Clay and gravel, wet 1 540 Magnetite, iron ore 2 790

Clay, dry 1 480 Phosphate rock 1 280

Clay, natural bed 1 660 Pyrite, iron ore 2 580

Clay, wet 1 660 Sand and gravel, dry 1 720

Coal, anthracite, broken 1 100 Sand and gravel, wet 2 020

Coal, bituminous,

broken

830 Sand, dry 1 420

Earth, dry, packed 1 510 Sand, wet 1 840

Earth, loam 1 250 Sandstone, broken 1 510

Earth, wet, excavated 1 600 Shale 1 250

Granite, broken or large

crushed

1 660 Slag, broken 1 750

Gravel, dry 1 510 Stone, crushed 1 600

Gravel, dry 1/2" (13 to

50 mm)

1 690 Topsoil 950

Gravel, pit run (graveled

sand)

1 930

**Dimensions With Pin-On Bucket**

Standard Z-Bar Linkage, with Pin-On General-Purpose Bucket

with Bolt-On Segments and Teeth

**Bucket Type/Size**

Capacity, Heaped: 4.7 m³

Capacity, Struck: 4.0 m³

Bucket Weight: 2 579 kg

Bucket Width: 3.27 m

Breakout Force: 18 905 kg

Tipping Load, Straight: 20 508 kg

Tipping Load, 40º Full Turn: 17 588 kg

Safe Operating Load: 8 794 kg

Reach, 45º Dump Clearnace (2.13 m): 2.05 m

Reach, 45º Dump, Full Height: 1.28 m

Dump Clearance, 45º, Full Height: 3.19 m

Overall Length, Bucket on Ground: 9.26 m

Loader Clearance Circle, Bucket Carry Position: 14.60 m

Operating Weight: 26 210 kg

**Attachment Options**

Standard Z-Bar Linkage, with Pin-On General-Purpose Bucket

with Bolt-On Segments and Teeth

A

Height to Top of Cab and

Canopy

3.50 m

B Ground Clearance 0.462 m

C

Length from Centerline to Front

Axle

1.70 m

D Wheelbase 3.46 m

E Dump Clearance • 3.19 m

F

Height to Hinge Pin, Fully

Raised

4.50 m

G Dump Reach •• 1.28 m

H Maximum Digging Depth 0.115 m

I Overall Length ••• 9.26 m

J

Maximum Rollback at Ground

Level

40º

K

Maximum Rollback, Boom Fully

Raised

54º

L

Maximum Bucket Angle, Fully

Raised

50º

M Overall Bucket Width 3.274 m

N Wheel Track 2.291 m

O Outside Wheel Width 2.953 m

P Full Turn Radius, Inside 5.743 m

Q Full Turn Radius, Outside 7.300 m

Bucket Options

**Size Type Blade / Lip Teeth Cutting Edge**

4.7 m³ GP Straight

Bolt-on 2 strap,

male adaptors

Segments

4.7m³ GP Straight None 4 Piece Bolt-on

2.8 m³ High Density Straight

Bolt-on 2 strap,

male adaptors

Segments

2.8 m³ High Density Straight None 4 Piece Bolt-on

3 m³ High Density Spade None

Weld-on Half

Arrows

4 m³ Rock Spade

Bolt-on 2 strap,

male adaptors

Segments

4 m³ Rock Spade None

Weld-on Half

Arrows

6.8 m³ Coal Straight None 4 Piece Bolt-on

**Cane Grabs:** Cane grab

**Log Grabs:** Large diameter log grab

Sorting grapple

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**Dimensions with pin-on bucket (line drawing)**