

# PRODUCT SPECIFICATIONS FOR 428

---

## ENGINE

---

<b>Power - Net</b>	64 kW
--------------------	-------

---

---

## ENGINE - STANDARD OFFERING TIER 2 EQUIVALENT

---

<b>Stroke</b>	127 mm
---------------	--------

---

<b>Power Rating Conditions - No De-Rating Required Up To</b>	2286 m
--	--------

---

<b>Ratings at 2,200 rpm - Gross Power ISO 14396</b>	68 kW/93 hp
---	-------------

---

<b>Torque Rise (net) - SAE J1349 Net</b>	384 N·m
--	---------

---

<b>Bore</b>	105 mm
-------------	--------

---

<b>Note</b>	Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
-------------	--

---

<b>Torque Rise (net)</b>	38% @ 1,400 rpm
--------------------------	-----------------

---

<b>Displacement</b>	4.4 l
---------------------	-------

---

<b>Net Power Rating at 2,200 rpm - SAE J1349</b>	64 kW/87 hp
--	-------------

---

<b>Engine</b>	3054C 68.5 kW Mechanical Turbo
---------------	--------------------------------

---

<b>Net Power Rating at 2,200 rpm - ISO 9249</b>	65 kW/88 hp
---	-------------

---

<b>Ratings at 2,200 rpm - Gross Power SAE J1995</b>	69 kW/94 hp
---	-------------

---

---

## ENGINE - OPTIONAL OFFERING TIER 2 EQUIVALENT

---

<b>Engine</b>	3054C 74.5 kW Mechanical Turbo
---------------	--------------------------------

---

<b>Torque Rise (net) - SAE J1349 Net</b>	397 N·m
--	---------

---

<b>Bore</b>	105 mm
-------------	--------

---

<b>Note</b>	Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
<b>Stroke</b>	127 mm
<b>Displacement</b>	4.4 l
<b>Net Power Rating at 2,200 rpm - SAE J1349</b>	70 kW/95 hp
<b>Power Rating Conditions - No De-Rating Required Up To</b>	2286 m
<b>Ratings at 2,200 rpm - Gross Power SAE J1995</b>	75 kW/102 hp
<b>Ratings at 2,200 rpm - Gross Power ISO 14396</b>	74 kW/101 hp
<b>Net Power Rating at 2,200 rpm - ISO 9249</b>	71 kW/96 hp
<b>Torque Rise (net)</b>	31% @ 1,400 rpm

---

ENGINE - OPTIONAL OFFERING TIER 3 EQUIVALENT

---

<b>Bore</b>	105 mm
<b>Net Power Rating at 2,200 rpm - ISO 9249</b>	65 kW/89 hp
<b>Power Rating Conditions - No De-Rating Required Up To</b>	2286 m
<b>Stroke</b>	127 mm
<b>Torque Rise (net) - SAE J1349 Net</b>	383 N·m
<b>Ratings at 2,200 rpm - Gross Power SAE J1995</b>	71 kW/97 hp
<b>Torque Rise (net)</b>	37% @ 1,400 rpm
<b>Note</b>	Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
<b>Engine</b>	C4.4 70 kW Mechanical Turbo Intercooled
<b>Displacement</b>	4.4 l
<b>Ratings at 2,200 rpm - Gross Power ISO 14396</b>	70 kW/95 hp
<b>Net Power Rating at 2,200 rpm - SAE J1349</b>	65 kW/88 hp

---

**ENGINE - OPTIONAL OFFERING TIER 3 EQUIVALENT - A**

---

<b>Ratings at 2,200 rpm - Gross Power SAE J1995</b>	76 kW/104 hp
<b>Displacement</b>	4.4 l
<b>Torque Rise (net)</b>	32% @ 1,400 rpm
<b>Torque Rise (net) - SAE J1349 Net</b>	398 N·m
<b>Ratings at 2,200 rpm - Gross Power ISO 14396</b>	75 kW/101 hp
<b>Net Power Rating at 2,200 rpm - ISO 9249</b>	70 kW/95 hp
<b>Bore</b>	105 mm
<b>Note</b>	Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
<b>Stroke</b>	127 mm
<b>Net Power Rating at 2,200 rpm - SAE J1349</b>	69 kW/94 hp
<b>Power Rating Conditions - No De-Rating Required Up To</b>	2286 m
<b>Engine</b>	C4.4 74.5 kW Mechanical – Turbo Intercooled

---

**TRANSMISSION - POWER SHUTTLE TRANSMISSION (STANDARD)**

---

<b>Reverse - 3rd</b>	21 km/h
<b>Reverse - 4th</b>	37 km/h
<b>Forward - 4th</b>	37 km/h
<b>Forward - 3rd</b>	21 km/h
<b>Reverse - 2nd</b>	9.2 km/h
<b>Forward - 2nd</b>	9.2 km/h
<b>Reverse - 1st</b>	5.6 km/h
<b>Forward - 1st</b>	5.6 km/h

---

---

TRANSMISSION - POWERSHIFT TRANSMISSION (OPTIONAL)

---

<b>Reverse - 1st</b>	5.9 km/h
<b>Forward - 2nd</b>	9.5 km/h
<b>Reverse - 3rd</b>	27 km/h
<b>Forward - 3rd</b>	20 km/h
<b>Reverse - 2nd</b>	12.4 km/h
<b>Forward - 4th</b>	40 km/h
<b>Forward - 1st</b>	5.9 km/h

---

TRANSMISSION - AUTO-SHIFT TRANSMISSION WITH LOCK-UP TORQUE CONVERTER (OPTIONAL)

---

<b>Reverse - 2nd</b>	12 km/h
<b>Forward - 4th</b>	20 km/h
<b>Forward - 5th</b>	27 km/h
<b>Forward - 2nd</b>	9.5 km/h
<b>Reverse - 1st</b>	5.9 km/h
<b>Forward - 1st</b>	5.9 km/h
<b>Forward - 3rd</b>	12 km/h
<b>Reverse - 3rd</b>	27 km/h
<b>Forward - 6th</b>	40 km/h

---

AXLE RATINGS

---

<b>Front Axle (AWD) - Dynamic</b>	9000 kg
<b>Front Axle (AWD) - Static</b>	23500 kg
<b>Rear Axle - Dynamic</b>	10000 kg
<b>Rear Axle - Static</b>	26500 kg

---

## WEIGHTS

---

<b>Operating Weight - Nominal</b>	8275 kg
<b>Operating Weight - Maximum</b>	11000 kg
<b>Operating Weight - ROPS Capacity - Maximum</b>	11000 kg
<b>Loader, IT with Quick Coupler</b>	185 kg
<b>Auto-Shift Transmission</b>	105 kg
<b>Ride Control</b>	15 kg
<b>Counterweights - Base</b>	115 kg
<b>Extendible Stick - Excludes Front Counterweight</b>	208 kg
<b>Counterweights - Maximum</b>	460 kg
<b>MP Bucket (1.03 m<sup>3</sup>/1.3 yd<sup>3</sup>) - with Fold-over Forks</b>	860 kg
<b>Note</b>	Machine Configuration – standard LRC engine; standard stick hoe; standard cab with A/C; AWD standard shift transmission; 1.03 m <sup>3</sup> MP loader bucket; 610 mm standard duty hoe bucket; front 340/80-18 and rear 440/80-28 tires; no counterweight; 80 kg operator; full fuel tank.
<b>Cab - ROPS/FOPS</b>	STD
<b>Counterweights - Stackable, One</b>	240 kg
<b>MP Bucket (1.03 m<sup>3</sup>/1.3 yd<sup>3</sup>) - without Fold-over Forks</b>	674 kg
<b>Total Gross Weight Not to Exceed</b>	11000 kg
<b>Minimum Counterweight Recommendations - Extendible Stick - Loader Bucket - Parallel Lift - MP</b>	0 kg
<b>Minimum Counterweight Recommendations - Standard Stick - Loader Bucket - Parallel Lift - MP</b>	0 kg
<b>Minimum Counterweight Recommendations - Extendible Stick - Loader Bucket - Parallel Lift - GP</b>	460 kg
<b>Minimum Counterweight Recommendations - Standard Stick - Loader Bucket - Parallel Lift - GP</b>	115 kg

<b>Air Conditioning</b>	STD
<b>Operating Weight (estimated)</b>	8275 kg

---

#### HYDRAULIC SYSTEM

---

<b>System Pressure - Loader</b>	250 bar
<b>System Pressure - Backhoe</b>	250 bar
<b>Pump Capacity @ 2,200 rpm</b>	160 l/min
<b>Type</b>	Closed Center
<b>Pump Type</b>	Variable-Flow, Axial Piston

---

#### STEERING

---

<b>AWD Cylinder, One (1) Double Acting - Bore</b>	65 mm
<b>AWD Cylinder, One (1) Double Acting - Stroke</b>	106 mm
<b>Turning Circle (inner wheel not braked) - Outside Widest Loader Bucket</b>	10.745 m
<b>AWD Cylinder, One (1) Double Acting - Rod Diameter</b>	40 mm
<b>AWD Cylinder, One (1) Double Acting - Axle Oscillation</b>	11 °
<b>Turning Circle (inner wheel not braked) - Outside Front Wheels</b>	8.205 m
<b>Type</b>	Front Wheel
<b>Power Steering</b>	Hydrostatic

---

#### SERVICE REFILL CAPACITIES

---

<b>Diesel Exhaust Fluid</b>	19 l
<b>Engine Oil - With Filter</b>	9 l

Cooling System - A/C	18 l
Hydraulic System	95 l
Hydraulic Tank	42 l
Rear Axle - Planetaries	1.7 l
Fuel Tank	160 l
Front Axle (AWD) - Planetaries	0.7 l
Rear Axle	16 l
Front Axle (AWD)	11 l
Transmission - Power Shuttle - AWD	18 l
Transmission (Powershift) - AWD	19 l

---

## TRANSMISSION

---

### Note

Travel speeds of backhoe loader at full throttle, when equipped with 440/80-28 rear tires.

---



---

## 428 STANDARD EQUIPMENT

### CAB ROPS AND FOPS

Cab, Standard

### TIRES/STEERING/BRAKES

All Wheel Drive

100% Differential Lock

Hydraulic Boosted Brakes

Tires 26 inch

### ENGINE/TRANSMISSION

Engine Cat 3054C 68.5 kW

Battery, 750 CCA, Standard

Hinged Radiator Pack

Standard

Standard Mode

Diff Lock

Transmission Neutralizer

Transmission, Four Speed Manual

Transmission, Six Speed Automatic with LUTC

## CONTROLS

Controls, Mechanical Levers

Power Steering, Hydrostatic

## HYDRAULICS

Variable Displacement Piston Pump

Side Shift Lock

Hydraulic Oil Cooler

Loader Kickout, Float

Loader Kickout, Return to Dig

## BOOMS, STICKS AND LINKAGES

Stick Standard, 4.3 m

Transport Lock, Swing

Transport Lock, Boom

## OTHER ATTACHMENTS

External Tool Box

Transport Tie Downs

## ELECTRICAL

Product Link Cellular

Reversing Alarm

Stabilizer Alarm

# 428 OPTIONAL EQUIPMENT

## CAB ROPS AND FOPS

Canopy Plus

Cab Deluxe



Cab, Deluxe

#### TIRES/STEERING/BRAKES

Tires 28 inch

#### ENGINE/TRANSMISSION

Engine Cat 3054C 74.5 kW

Engine C4.4 70 kW

Engine C4.4 74.5 kW

Battery, 750 CCA, Heavy Duty

Engine Block Heater

Transmission, Four Speed Powershift

Transmission, Six Speed Automatic

#### CONTROLS

Controls, Pilot Joysticks

Pattern Selector (ISO/SAE)

#### HYDRAULICS

Hydraulic Quick Disconnects

Hydraulic Lines, One Way

Hydraulic Lines, Two Way

Powered Side Shift

Ride Control

Continuous Flow

Programmable Auxiliary Flow

#### BOOMS, STICKS AND LINKAGES

Stick Extending, 4.3 m

Hoe Quick Coupler, Mechanical

Hoe Quick Coupler, Hydraulic

Loader Quick Coupler, Hydraulic

#### OTHER ATTACHMENTS

Counterweight, 115 kg

Counterweight, 240 kg

Counterweight, 460 kg

Front Fenders

Street Pads, Stabilizers

## ELECTRICAL

Product Link Satellite

Beacon, Rotating

Beacon, Strobe