

# PRODUCT SPECIFICATIONS FOR 428



## ENGINE

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**Power - Net 64 kW**

## ENGINE - STANDARD OFFERING TIER 2 EQUIVALENT

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<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 Bore</b>	384 N·m 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 Engine</b>	64 kW/87 hp 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

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<b>Engine</b>	3054C 74.5 kW Mechanical Turbo
<b>Torque Rise (net) - SAE J1349 Net Bore</b>	397 N·m 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</b>	74 kW/101 hp

**14396**

**Net Power Rating at 2,200 rpm - ISO 9249**  
**Torque Rise (net)**

71 kW/96 hp  
 31% @ 1,400 rpm

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

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**Bore**  
**Net Power Rating at 2,200 rpm - ISO 9249**  
**Power Rating Conditions - No De-Rating Required Up To**  
**Stroke**  
**Torque Rise (net) - SAE J1349 Net**  
**Ratings at 2,200 rpm - Gross Power SAE J1995**  
**Torque Rise (net)**

105 mm  
 65 kW/89 hp  
 2286 m  
 127 mm  
 383 N·m  
 71 kW/97 hp  
 37% @ 1,400 rpm

**Note**

Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.

**Engine**  
**Displacement**  
**Ratings at 2,200 rpm - Gross Power ISO 14396**  
**Net Power Rating at 2,200 rpm - SAE J1349**

C4.4 70 kW Mechanical Turbo Intercooled  
 4.4 l  
 70 kW/95 hp  
 65 kW/88 hp

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

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**Ratings at 2,200 rpm - Gross Power SAE J1995**  
**Displacement**  
**Torque Rise (net)**  
**Torque Rise (net) - SAE J1349 Net**  
**Ratings at 2,200 rpm - Gross Power ISO 14396**  
**Net Power Rating at 2,200 rpm - ISO 9249**  
**Bore**

76 kW/104 hp  
 4.4 l  
 32% @ 1,400 rpm  
 398 N·m  
 75 kW/101 hp  
 70 kW/95 hp  
 105 mm

**Note**

Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.

**Stroke**  
**Net Power Rating at 2,200 rpm - SAE J1349**  
**Power Rating Conditions - No De-Rating Required Up To**  
**Engine**

127 mm  
 69 kW/94 hp  
 2286 m  
 C4.4 74.5 kW Mechanical – Turbo Intercooled

## TRANSMISSION - POWER SHUTTLE TRANSMISSION (STANDARD)

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

## TRANSMISSION - POWERSHIFT TRANSMISSION (OPTIONAL)

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

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

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

## AXLE RATINGS

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**Front Axle (AWD) - Dynamic** 9000 kg  
**Front Axle (AWD) - Static** 23500 kg  
**Rear Axle - Dynamic** 10000 kg  
**Rear Axle - Static** 26500 kg

## WEIGHTS

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<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

### Note

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</b>	
- Extendible Stick - Loader Bucket - Parallel Lift - MP	0 kg
<b>Minimum Counterweight Recommendations</b>	
- Standard Stick - Loader Bucket - Parallel Lift - MP	0 kg
<b>Minimum Counterweight Recommendations</b>	
- Extendible Stick - Loader Bucket - Parallel Lift - GP	460 kg
<b>Minimum Counterweight Recommendations</b>	
- Standard Stick - Loader Bucket - Parallel Lift - GP	115 kg
<b>Air Conditioning</b>	STD
<b>Operating Weight (estimated)</b>	8275 kg

## HYDRAULIC SYSTEM

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<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

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<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

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<b>Diesel Exhaust Fluid</b>	19 l
<b>Engine Oil - With Filter</b>	9 l
<b>Cooling System - A/C</b>	18 l
<b>Hydraulic System</b>	95 l
<b>Hydraulic Tank</b>	42 l
<b>Rear Axle - Planetaries</b>	1.7 l
<b>Fuel Tank</b>	160 l
<b>Front Axle (AWD) - Planetaries</b>	0.7 l
<b>Rear Axle</b>	16 l
<b>Front Axle (AWD)</b>	11 l
<b>Transmission - Power Shuttle - AWD</b>	18 l
<b>Transmission (Powershift) - AWD</b>	19 l

## TRANSMISSION

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

## **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