

PRODUCT SPECIFICATIONS FOR 420F2/420F2 IT

ENGINE

Net Power - SAE J1349	70 kW
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Net Peak Torque - 1,400 rpm	398 Nm @ 1400 rpm
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ENGINE - STANDARD

Stroke	127 mm
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Net Peak Power - 2,200 rpm - EEC 80/1269	71 kW
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Engine Model	Cat 3054C Mechanically Turbocharged
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Gross Power - SAE J1995	75 kW
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Bore	105 mm
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Displacement	4.4 l
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Net Peak Power - 2,200 rpm - SAE J1349	70 kW
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Rated Net Power - 2,200 rpm - ISO 9240	71 kW
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Rated Net Power - 2,200 rpm - SAE J1349	70 kW
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Net Torque Rise - 1,400 rpm	31%
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Net Peak Power - 2,200 rpm - ISO 9249	71 kW
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Gross Power - ISO 14396	74 kW
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Rated Net Power - 2,200 rpm - EEC 80/1269	71 kW
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Net Peak Torque SAE J1349	398 N·m
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Emissions	Cat 3054C engine meets U.S. EPA Tier 2/EU Stage II equivalent emission standards.
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WEIGHTS

Operating Weight - Maximum	11000 kg
Cab - ROPS/FOPS	163 kg
Ride Control	14 kg
Four Wheel Drive	165 kg
Air Conditioning	42 kg
Counterweights - Option 1	115 kg
Counterweights - Option 2	240 kg
Counterweights - Option 3	460 kg
Loader, IT with Quick Coupler	317 kg
Operating Weight - Maximum - ROPS Capacity	11000 kg
MP Bucket (1.00 m³/1.31 yd³) - No Forks or Teeth	745 kg
Extendible Stick	305 kg
Auto-Shift Transmission	238 kg
Note	Specifications shown are for machine equipped with single tilt loader, OROPS, two wheel drive, standard stick, 0.96 m ³ (1.25 yd ³) general purpose loader bucket, 610 mm (24 in) standard duty backhoe bucket, 240 kg (530 lb) counterweight and full fuel tank.

BACKHOE

Dig Depth - Standard	4360 mm
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HYDRAULIC SYSTEM

Pump Type	Variable Flow, Axial Piston
System Pressure - Loader	25000 kPa
Pump Capacity at 2,200 rpm	163 l/min
System Pressure - Backhoe	25000 kPa
Type	Closed Center

TRANSMISSION

Power Shuttle Transmission - Forward 3rd	21 km/h
Power Shuttle Transmission - Reverse 1st	5.4 km/h
Power Shuttle Transmission - Forward 2nd	9 km/h
Auto-Shift - Optional - Reverse 2nd	12 km/h
Auto-Shift - Optional - Forward 3rd	12 km/h
Power Shuttle Transmission - Reverse 3rd	21 km/h
Power Shuttle Transmission - Reverse 4th	40 km/h
Power Shuttle Transmission - Reverse 2nd	9 km/h
Auto-Shift - Optional - Forward 2nd	9.3 km/h
Power Shuttle Transmission - Forward 4th	40 km/h
Power Shuttle Transmission - Forward 1st	5.4 km/h
Auto-Shift - Optional - Reverse 1st	5.8 km/h
Auto-Shift - Optional - Forward 1st	5.8 km/h
Auto-Shift - Optional - Forward 4th	19 km/h
Auto-Shift - Optional - Forward 6th	40 km/h
Auto-Shift - Optional - Forward 5th	26 km/h
Auto-Shift Transmission - With Lock-Up Torque Converter - Optional: Reverse - 3rd	28 km/h
Auto-Shift - Optional - Reverse 3rd	28 km/h
Auto-Shift Transmission - With Lock-Up Torque Converter - Optional: Forward - 5th	23 km/h
Auto-Shift Transmission - With Lock-Up Torque Converter - Optional: Forward - 6th LUC	40 km/h
Auto-Shift Transmission - With Lock-Up Torque Converter - Optional: Forward - 1st	5.8 km/h
Auto-Shift Transmission - With Lock-Up Torque Converter - Optional: Forward - 2nd	9.3 km/h

Auto-Shift Transmission - With Lock-Up Torque Converter - Optional: Forward - 5th LUC	25 km/h
Auto-Shift Transmission - With Lock-Up Torque Converter - Optional: Forward - 3rd	12 km/h
Auto-Shift Transmission - With Lock-Up Torque Converter - Optional: Forward - 4th	19 km/h
Auto-Shift Transmission - With Lock-Up Torque Converter - Optional: Reverse - 2nd	12 km/h
Auto-Shift Transmission - With Lock-Up Torque Converter - Optional: Reverse - 1st	5.8 km/h
Auto-Shift Transmission - With Lock-Up Torque Converter - Optional: Forward - 6th	40 km/h

SERVICE REFILL CAPACITIES

Rear Axle	16.5 l
Rear Axle - Planetaries	1.7 l
Engine Oil - With Filter	8.8 l
Front Axle (4WD)	11 l
Fuel Tank	160 l
Transmission - Auto-Shift - 4WD	19 l
Transmission - Power Shuttle - 2WD	15 l
Transmission - Power Shuttle - 4WD	15 l
Hydraulic System	95 l
Cooling System with Air Conditioning	18.5 l
Front Axle (4WD) - Planetaries	0.7 l
Hydraulic Tank	40 l

AXLE RATINGS

Front Axle (4WD) - Dynamic	9186 kg
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Front Axle (2WD) - Dynamic	9186 kg
Front Axle (2WD) - Static	22964 kg
Rear Axle - Static	22964 kg
Front Axle (4WD) - Static	22964 kg
Rear Axle - Dynamic	9186 kg

ENGINE - OPTIONAL

Rated Net Power - 2,200 rpm - ISO 9240	70 kW
Net Peak Power - 2,200 rpm - EEC 80/1269	71 kW
Stroke	127 mm
Emissions	Optional Cat C4.4 engine meets U.S. EPA Tier 3/EU Stage IIIA equivalent emission standards.
Gross Power - ISO 14396	75 kW
Rated Net Power - 2,200 rpm - SAE J1349	69 kW
Displacement	4.4 l
Net Peak Torque SAE J1349	398 N·m
Engine Model	Cat C4.4 Mechanical Turbocharged Aftercooled
Bore	105 mm
Gross Power - SAE J1995	76 kW
Net Peak Power - 2,200 rpm - ISO 9249	71 kW
Net Torque Rise - 1,400 rpm	32%
Rated Net Power - 2,200 rpm - EEC 80/1269	70 kW
Net Peak Power - 2,200 rpm - SAE J1349	70 kW

TIRES

Choice 2	12.5/80-18 (12 ply) 1-3/19.5L-24 (12 ply) ATU
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Choice 5	340/80R 18/500/70R 24 RT
Choice 3	12.5/80-18 NHS (12 ply) 1-3/21L-24 (16 ply) R4 ATU
Choice 1	11L-16 (12 ply) F-3/19.5L-24 (12 ply) R4 ATU
Choice 4	340/80R 18/19.5L-24 (12 ply) R4 ATU

STEERING

Bore	65 mm
Rod Diameter	36 mm
Turning Circle - (inner wheel not braked) - Outside Front Wheels	8.18 m
Power Steering	Hydrostatic
Turning Circle - (inner wheel not braked) - Outside Widest Loader Bucket	10.97 m
Type	Front Wheel
Stroke	120 mm
Axle Oscillation	11°

420F2/420F2 IT STANDARD EQUIPMENT

POWER TRAIN

Air cleaner

Brake, secondary parking

Brakes, hydraulically boosted, oil disc, dual pedals, interlocking

Coolant/antifreeze, extended life

Diagnostic port for engine, machine and gauge cluster Electronic Control Modules

Differential lock, loader joystick

Engine, Cat 3054C, Mechanical Turbocharged, meets Tier 2/Stage II equivalent emission standards

Engine enclosure, sound suppression removal panels

Fast response shuttle - all gears

Fast reversing shuttle, all gears

Filters, spin-on: fuel, engine oil, transmission oil, water separator

Filters, bowl and cartridge: hydraulic fluid

High ambient cooling package

Torque converter

Transmission, four speed, syncromesh

Transmission neutralizer switch

Two Wheel Drive

OPERATOR ENVIRONMENT

Joystick controls: pilot operated, excavator-style with pattern changer

Canopy, ROPS/FOPS

Coat restraint

Drink holders, two

Fan, suction and guard

Floor mat

Gauge cluster

Gauges: coolant temperature, fuel level, tachometer

Indicators: air cleaner service, water separator service, engine coolant, oil pressure, torque converter temperature high, fuel level, charging, engine warning #1, engine warning #2, action lamp, wait to start

Instrument panel lights

Mirror, rearview

Pattern changer, in cab

Radio ready

Seat belt, retractable, 51 mm (2 in)

Steering knob

Seat, mechanical suspension, vinyl

Storage compartment, lockable

Storage tray

Tilt steering column

Full steering column

Throttle, hand and foot, manual

HYDRAULIC SYSTEM

Adjustable auxiliary controls, backhoe loader

Face seals, O-ring

Hydraulic hose, XT™

Hydraulic oil cooler

Hydraulic oil level sight gauge

Hydraulic valve, hydrostatic steering

Hydraulic valves, loader 2 function

Hydraulic valves, backhoe 5 function

Hydraulics, load sensing with variable displacement piston pump

ELECTRICAL

Alarm, back-up

Alternator, 120 amp

Audible system fault alarm

Battery, maintenance-free, 880 CCA

Battery disconnect switch

Battery remote jumpstart

Dome light (cab only)

Flashing hazards/signal lights

Key start/stop system

Lights, working (2 front, 2 rear)

Power receptacle, 12 volt, 2 internal, 1 external

Product Link™, cellular, PL240 (only for certified countries)

Socket, two roof

Starting system, glow plugs

Stop and tail lights

Stop and tail lights

Warning horn, electric

OTHER

Boom transport lock

Brace, lift cylinder

Bucket level indicator

Cat cushion swing system

Counterweight, bumper

Fenders, rear

Fuel tank, fully enclosed

Fully hinged front grill for cooling package cleaning access

Ground level fuel fill

Hood lock, inside cab

Loader, self-leveling, return-to-dig and transmission disconnect switch

Loader, single tilt

Open circuit breather

Power steering, hydrostatic

Stabilizer shoes, street

Swing transport lock

Tires

Toolbox, external, lockable

Transport tie-downs

Vandalism locks, four

420F2/420F2 IT OPTIONAL EQUIPMENT

OPTIONAL EQUIPMENT

Cab, deluxe

Cold weather fuel (–30° C/–22° F)

Cold weather package, including additional battery, engine block heater, radiator antifreeze, cold weather fuel

Cold weather package, including additional battery, engine block heater, radiator antifreeze, cold weather fuel (–30° C/–22° F) and mounting for an ether bottle

Counterweights, 115 kg (255 lb), 240 kg (530 lb) or 460 kg (1,015 lb)

Engine, Cat C4.4, meets Tier 3/Stage IIIA equivalent emission standards

Fenders, front with integral steps

Four Wheel Drive

Guard, boom protection plate

Guard, stabilizer, rock

Hydraulic valves, loader with auxiliary roller thumb control (3rd valve for GP, MP or Quick Coupler)

Hydraulic valves, backhoe 6 function

Hydraulic lines, combined function auxiliary

Loader, IT with Quick Coupler and pilot loader control

Product Link, cellular, PL641I

Product Link, satellite, PL631E

Quick Coupler, hydraulic, dual lock

Quick Coupler, manual, dual lock

Quick Coupler, pin lock

Radio and CD player

Radio and CD player, Bluetooth

Ride Control

Rotating beacon, magnetic mount

Seat, air suspension, fabric with armrest

Seat belt, 75 mm (3 in)

Security system keypad

Stabilizer pads, reversible

Stick, extendible

Storage box

Transmission, AutoShift

Transmission, AutoShift with lock-up torque converter

Vandalism protection, gauge cover

Work Tool Attachments such as buckets, forks, material handling arms, augers, hammers, brooms, cold planers and vibratory plate compactors. See your Cat dealer for more information.