Product Specifications For 415 IL



Engine

Net Power - SAE J1349:2011	69 hp
Engine Model	Cat C3.6
Bore	3.86 in
Stroke	4.72 in
Displacement	220 in³
Emissions	Engine meets U.S. EPA Tier 4 Final emission standards.
Net Peak Torque SAE J1349	308 ft·lbf
Gross Power - SAE J1995:2014	75 hp
Net Peak Power - 2,200 rpm - SAE J1349	69 hp
Gross Power - ISO 14396	74 hp
Net Torque Rise - 1,200 rpm	86 %
Note	No derating required up to 2286 m (7,500 ft).
Net Power - 2,200 rpm - SAE J1349	69 hp
Rated Net Power - 2,200 rpm - ISO 9249	69 hp
Net Peak Power - 2,200 rpm - ISO 9249	69 hp
147 · I.	

Weights

Operating Weight -Maximum 17637 lb

Cab - ROPS/FOPS	359 lb
Air Conditioning	101 lb
MP Bucket (0.96 m3/1.25 yd3) - Without Fold-Over Forks	1642 lb
MP Bucket (0.96 m3/1.25 yd3) - With Fold-Over Forks	2017 lb
Operating Weight - Maximum - ROPS Capacity	17637 lb
Front Counterweight - Counterweights - Option 3	1015 lb
Rear Counterweight	198 lb
Note	*Specifications shown are for machine equipped with 0.76 m³ (1 yd³) general purpose loader bucket, 115 kg (255 lb) front counterweight, 80 kg (176 lb) operator, all wheel drive and full fuel tank.
Front Counterweight - Counterweights - Option 1	255 lb
Front Counterweight - Counterweights - Option 2	530 lb
Minimum Operating Weight	14035 lb
Hvdraulic System	

Hydraulic System

Pump Type	Variable Flow, Axial Piston
Туре	Closed Center
System Pressure - Loader	2973 psi
System Pressure - Hitch/Box Scraper	2973 psi

Transmission

Power Shuttle Transmission - Standard - Reverse - 2nd	5.5 mile/h
Power Shuttle Transmission - Standard - Forward - 3rd	13 mile/h
Power Shuttle Transmission - Standard - Reverse - 3rd	13 mile/h
Power Shuttle Transmission - Standard - Reverse - 4th	23 mile/h
Power Shuttle Transmission - Standard - Forward - 4th	23 mile/h
Power Shuttle Transmission - Standard - Forward - 2nd	5.5 mile/h
Power Shuttle Transmission - Standard - Forward - 1st	3.4 mile/h
Power Shuttle Transmission - Standard - Reverse - 1st	3.4 mile/h

Axle Ratings

Rear Axle - Dynamic	20233 lb
Front Axle (4WD) - Static	26455 lb
Front Axle (4WD) - Dynamic	13228 lb
Rear Axle - Static	50582 lb

Steering

Bore	2.6 in
Stroke	4.2 in
Rod Diameter	1.6 in

Power Steering Hydrostatic

Axle Oscillation 11°

Туре	Front Wheel
Turning Circle - AWD (inner wheel not braked) - Outside, Front Wheels	26.8 ft
Turning Circle - AWD (inner wheel not braked) - Outside, Widest Loading Bucket	36 ft

Service Refill Capacities

Hydraulic System	23.8 gal (US)
Rear Axle	4.4 gal (US)
Cooling System with Air Conditioning	4.4 gal (US)
Fuel Tank	42 gal (US)
Front Axle (4WD) - Planetaries	0.2 gal (US)
Engine Oil - With Filter	2.3 gal (US)
Front Axle (4WD)	2.9 gal (US)
Rear Axle - Planetaries	0.4 gal (US)
Transmission - Power Shuttle - 2WD	4 gal (US)
Transmission - Power Shuttle - 4WD	4 gal (US)
Hydraulic Tank	10.6 gal (US)
Note	Requires ultra-low sulfur fuel less than or equal to 15 ppm fuel sulfur

Tires

Counterweights - Front - Minimum Recommendations

Standard Stick - MP Loader Bucket - 4WD no counterweight

Standard Stick - GP Loader Bucket - 4WD

255 lb

Front: 12.5 80/16.9; Rear: 16.9-24

415 IL Standard Equipment

STANDARD EQUIPMENT

Air cleaner

Alarm, back-up

Audible system fault alarm

Box Blade Controls, finger lever pilot

Battery, maintenance-free, 880 CCA

Battery disconnect switch

Brace, lift cylinder

Brake, secondary parking

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

Bucket level indicator

Canopy, ROPS/FOPS

Coat restraint

Coolant/antifreeze, extended life

Counterweight, bumper

Dome light (cab only)

Diagnostic port for engine

Differential lock, floor mounted

Differential lock, loader joystick

Drink holders, two

Engine, Cat C3.6, meets Tier 4 Final emission standards, diesel particulate filter

Engine enclosure, sound suppression removal panels

Face seals, O-ring

Fan, suction and guard

Fast reversing shuttle, all gears

Fenders, rear

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

Filters, bowl and cartridge: hydraulic fluid

Flashing hazards/signal lights

Floor mat

Fuel tank, fully enclosed

Fully hinged front grill for cooling package cleaning access

Gauge cluster: coolant temperature, fuel level, torque converter temperature, battery voltage

Ground level fuel fill

High ambient cooling package

Hitch, rear 3-point

Hood lock, inside cab

Hydraulic hose, Cat XT™-3

Hydraulic oil cooler

Hydraulic oil level sight gauge

Hydraulic valve, hydrostatic steering

Hydraulic valves, loader 3 function

Hydraulic valves, rear 5 function

Hydraulics, load sensing with variable displacement piston pump

Indicator lights and LCD warnings for system status

Instrument panel lights

Key start/stop system

LCD screen with machine system information

Lights, working (2 front, 2 rear)

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

Loader, single tilt

Mirror, rearview

Open circuit breather

Power receptacle, 12 volt, 2 internal, 2 external roof mounted

Power steering, hydrostatic

Seat belt, retractable, 75 mm (3 in)

Steering knob

Seat, mechanical suspension, fabric or vinyl cover, with armrest

Starting system, glow plugs

Steering, hydrostatic

Storage compartment, lockable

Storage tray

Stop and tail lights

Tires, 12.5/80-18 front, 16.9-24 rear

Toolbox, external, lockable

Torque converter

Throttle, foot, electronic

Transmission, four speed, syncromesh

Transmission neutralizer switch

Transport tie-downs

Four Wheel Drive

Warning horn, electric

Product Link™, cellular, PLE643

Product Link, dual mode, PLE683

415 IL Optional Equipment

OPTIONAL EQUIPMENT

Battery, additional, 880 CCA

Box, blade/scarifier

Cab, standard with air conditioning

Cold weather fuel (-30° C/-22° F)

Cold weather package, including additional battery, engine block heater, radiator antifreeze (-50° C/-58°

F), 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)

Counterweight, rear 90 kg (198 lb)

Dual tilt rear hitch

Face fan

Fenders, front with integral steps

Radio and CD player, Bluetooth®

Ride Control

Rotating beacon, magnetic mount

Security system keypad

Vandalism protection, gauge cover

Work Tool Attachments such as buckets, forks, and material handling arms. See your Cat dealer for more information.

LED lights, working (2 front, 2 rear)

Security system, Bluetooth

Security System, operator display

Side mirrors, cab, external

Single Tilt Loader Coupler, Integrated Tool Carrier (IT) Interface