

FSA20-EQU18.0, ITEM# 163
LOADER: 2,800 LB OC Skid Steer Loader - Wheel Only
272D3 SHERIFF'S CONTRACT WORKSHEET

512-4272	272D3 SKID STEER LOADER
563-1163	CERTIFICATION ARR, P65
512-4282	INSTRUCTIONS, ANSI, USA
512-4412	HYDRAULICS, PERFORMANCE, (H1)
512-4111	CONTROL, ISO, PROP
512-3369	POWERTRAIN, ONE SPEED
356-6082	REAR LIGHTS
512-3366	ROPS, OPEN (C1)
532-7673	SEAT, SUSPENSION, VINYL
465-3705	DISPLAY, ADVANCED, LCD, CAMERA .
512-3490	RIDE CONTROL, NONE
568-5611	BATTERY, HEAVY DUTY, 850 CCA
495-1671	LIGHTS, LED
542-6994	SEAT BELT, 2"
566-7115	PRODUCT LINK, CELLULAR PL243
457-3167	FAN, COOLING, DEMAND
331-2490	TIRES, 14/17.5 CAT 14PR
345-4910	QUICK COUPLER, MANUAL
421-8926	SERIALIZED TECHNICAL MEDIA KIT
296-8192	BUCKET-GP, BOCE 84"

272D3 SKID STEER LOADER
SANFORD, NC, USA

Ship Weight
lbs

LIST PRICE
AT DEALER

Standard Equipment:

POWERTRAIN

Cat C3.8 turbo aftercooled diesel engine
-Gross horsepower per SAE J1349
98 hp (73 kW) @ 2400 RPM
-Electric fuel priming pump
-Air inlet heater starting aid
-Liquid cooled, direct injection
Air cleaner, dual element, radial seal
S-O-S sampling valve, hydraulic oil
Filter, cartridge type, hydraulic
Filters, canister type, fuel
and water separator
Radiator / hydraulic oil
cooler (side-by-side)
Spring applied, hydraulically released,
parking brakes
Hydrostatic transmission
Four wheel chain drive

HYDRAULICS

CONTROLS:
Electro/hydraulic implement control
Electro/hydraulic hydrostatic
transmission control

ELECTRICAL

12 volt electrical system
100 ampere alternator
Ignition key start / stop / aux switch
Lights:
-Gauge backlighting
-Two rear tail lights
-Dome light
Backup alarm
Electrical outlet, beacon

OPERATOR ENVIRONMENT

Operator warning system indicators:
-Air filter restriction
-Alternator output
-Armrest raised / operator out of seat
-Engine coolant temperature
-Engine oil pressure
-Air inlet heater activation
-Hydraulic filter restriction
-Hydraulic oil temperature
-Park brake engages
-Engine emission system
Gauges: DEF level, fuel level, hour
meter and tachometer
Storage compartment with netting
Adjustable vinyl seat
Ergonomic contoured armrest
Adjustable joystick controls
Control interlock system, when operator

leaves seat or armrest raised :
-Hydraulic system disables
-Hydrostatic transmission disables
-Parking brake engages
ROPS Cab, open, tilt up
Anti-theft security system with 50 user
code capability
FOPS, Level I
Top and rear windows
Floor mat
Interior rear view mirror
12V electric socket
Horn
Hand (dial) throttle electronic

FRAMES

Lift linkage, vertical path
Chassis, one piece welded
Machine tie down points (6)
Belly pan cleanout
Support, lift arm
Cast rear bumper
Ventilated rear door with integrated
sealing

OTHER STANDARD EQUIPMENT

Engine enclosure - lockable
Extended life antifreeze (-37C, -34F)
Coupler, mechanical
Hydraulic oil level sight gauge
Radiator coolant level sight gauge
Radiator expansion bottle
Cat tough guard hose
Heavy duty flat faced quick disconnects
with integrated pressure release
Split d-Ring to route work tool hoses
along side of left lift arm
Variable speed hydraulic cooling fan
Per SAE J818-2007 and EN 474-3:2006 and
ISO 14397-1:2007



Cat[®] 272D3

SKID STEER LOADER

FEATURES:

The Cat[®] 272D3 Skid Steer Loader, with its long wheel base and vertical lift design, delivers extended reach and lift height for quick and easy truck loading. Its stability and lifting performance provides excellent material handling. The 272D3 features the following:

- **Industry leading sealed and pressurized cab option** provides a cleaner and quieter operating environment with excellent work tool visibility.
- **Available high-back, heated, air ride seat with seat mounted adjustable joystick controls** makes Cat Skid Steer Loaders the industry leader in operator comfort.
- **High performance power train** provides maximum performance and production capability through the Electronic Torque Management system, optional two speed travel and an electronic hand/foot throttle with decel pedal capability.
- **High Flow XPS hydraulic system** is available for applications that demand maximum hydraulic work tool performance.
- **Electronically controlled Cat C3.8 engine** provides high horsepower and torque while meeting U.S. EPA Tier 4 Final and EU Stage IV emission standards.
- **Cat "Intelligent Leveling" system (ILEV)** provides industry leading technology, integration, and is now packaged with dual direction self level, work tool return to dig, and work tool positioner.
- **Speed Sensitive Ride Control option** improves operation on rough terrain, enabling better load retention, increased productivity and greater operator comfort.
- **Maximize machine capability and control** with the standard Advanced Display providing on-screen adjustments for implement response, hystat response and creep control. Also features multi-language functionality with customizable layouts, security system and rearview camera.
- **Ground level access** to all daily service and routine maintenance points helps reduce machine downtime for greater productivity.
- **Broad range of performance matched Cat Work Tools** make the Cat Skid Steer Loader the most versatile machine on the job site.
- **Available Long Lasting LED Work Lights** (front and rear) provide superior job site illumination.

Specifications

Engine

Engine Model	Cat C3.8 DIT (turbo)	
Gross Power SAE J1995	73 kW	98 hp
Net Power SAE 1349	71 kW	95 hp
Net Power ISO 9249	71 kW	96 hp
Peak Torque at 1,500 rpm SAE J1995	334 N-m	246 lbf-ft
Displacement	3.8 L	232 in ³
Stroke	120 mm	4.7 in
Bore	100 mm	3.9 in

Weights*

Operating Weight	4143 kg	9,133 lb
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Power Train

Travel Speed (Forward or Reverse):		
One Speed	10.6 km/h	6.6 mph
Two Speed Option	15.1 km/h	9.4 mph

Operating Specifications*

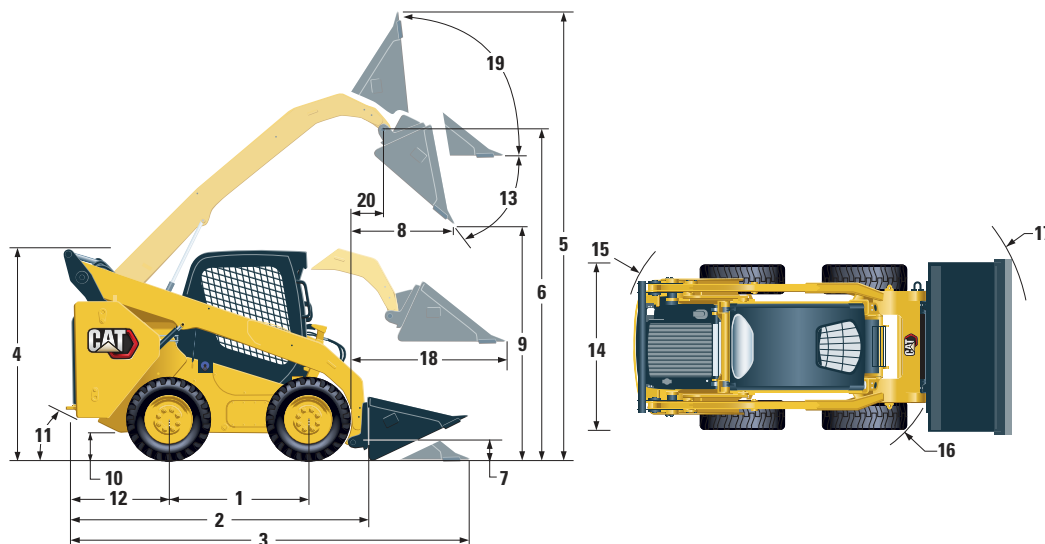
Rated Operating Capacity	1570 kg	3,450 lb
Rated Operating Capacity with Optional Counterweight	1675 kg	3,690 lb
Tipping Load	3135 kg	6,900 lb
Breakout Force, Tilt Cylinder	3376 kg	7,443 lb
Breakout Force, Lift Cylinder	2755 kg	6,074 lb

Hydraulic System

Hydraulic Flow – Standard:		
Loader Hydraulic Pressure	23 000 kPa	3,335 psi
Loader Hydraulic Flow	86 L/min	23 gal/min
Hydraulic Power (calculated)	33 kW	44 hp
Hydraulic Flow – High Flow XPS:		
Maximum Loader Hydraulic Pressure	28 000 kPa	4,061 psi
Maximum Loader Hydraulic Flow	121 L/min	32 gal/min
Hydraulic Power (calculated)	57 kW	76 hp



272D3 Skid Steer Loader



Dimensions*

1	Wheelbase	1386 mm	54.6 in	12	Bumper Overhang behind Rear Axle	1175 mm	46.2 in
2	Length without Bucket	3242 mm	127.6 in	13	Maximum Dump Angle	51°	
3	Length with Bucket on Ground	3954 mm	155.7 in	14	Vehicle Width over Tires	1829 mm	72.0 in
4	Height to Top of Cab	2094 mm	82.4 in	15	Turning Radius from Center – Machine Rear	1899 mm	74.7 in
5	Maximum Overall Height	4067 mm	160.1 in	16	Turning Radius from Center – Coupler	1482 mm	58.3 in
6	Bucket Pin Height at Maximum Lift	3229 mm	127.1 in	17	Turning Radius from Center – Bucket (racked)	2280 mm	89.8 in
7	Bucket Pin Height at Carry Position	198 mm	7.8 in	18	Maximum Reach with Arms Parallel to Ground	1282 mm	50.5 in
8	Reach at Maximum Lift and Dump	769 mm	30.3 in	19	Rack Back Angle at Maximum Height	84°	
9	Clearance at Maximum Lift and Dump	2438 mm	96.0 in	20	Bucket Pin Reach at Maximum Lift	374 mm	14.7 in
10	Ground Clearance	226 mm	8.9 in	21	Roll Back Angle	28°	
11	Departure Angle	27°					

*Operating Weight, Operating Specifications and Dimensions all based on 75 kg (165 lb) operator, all fluids, one speed, enclosed cab with glass door, side windows, heater, mechanical suspension seat, advanced display, standard flow hydraulics, 850 CCA battery, 1883 mm (74 in) low profile bucket, no optional counterweights, Cat PC 12 × 16.5 tires and manual quick coupler (unless otherwise noted).

Cab

ROPS	ISO 3471:2008
FOPS	ISO 3449:2005 Level I

Service Refill Capacities

Chain Box, each side	10.2 L	2.7 gal
Cooling System	16 L	4.1 gal
Diesel Exhaust Fluid (DEF) Tank	19 L	5 gal
Engine Crankcase	13 L	3.5 gal
Fuel Tank	120 L	31.7 gal
Hydraulic System	55 L	14.5 gal
Hydraulic Tank	39 L	10.3 gal

Noise Level

Inside Cab**	83 dB(A)
Outside Cab***	102 dB(A)

- Cab and Rollover Protective Structures (ROPS) are standard in North America and Europe.

**The declared dynamic operator sound pressure levels per ISO 6396:2008. The measurements were conducted with the cab doors and windows closed and at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds.

***The labeled sound power level for the CE marked configurations when measured according to the test procedure and conditions specified in 2000/14/EC.

Air Conditioning System (if equipped)

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.81 kg of refrigerant which has a CO₂ equivalent of 1.158 metric tonnes.

MANDATORY EQUIPMENT

- Hydraulics, Standard or High Flow XPS
- Quick Coupler, Mechanical or Powered
- High Visibility Seat Belt, 50 mm (2 in) or 75 mm (3 in)
- Power Train: One Speed, Two Speed or Two Speed with Speed Sensitive Ride Control
- Tires, 12 × 16.5 or 14 × 17.5

PERFORMANCE PACKAGE *(must select one of the following)*

- Performance Package H1: *Standard Flow Hydraulics (No Self Level)*
- Performance Package H2: *Standard Flow, Dual Direction Electronic Self Level (Raise and Lower), Work Tool Return to Dig, Work Tool Positioner, and Electronic Snubbing (Raise and Lower)*
- Performance Package H3: *High Flow XPS, Dual Direction Electronic Self Level (Raise and Lower), Work Tool Return to Dig, Work Tool Positioner, and Electronic Snubbing (Raise and Lower)*

COMFORT PACKAGE *(must select one of the following)*

- Open ROPS (C0): *Static Seat (No Foot Throttle, Headliner, Heater or Door)*
- Open ROPS (C1): *Foot Throttle, Headliner, Cup Holder, and choice of Seat (Mechanical Suspension or High Back, Heated, Air Ride Seat) (No Heater or Door)*
- Enclosed ROPS with Heater (C2): *Foot Throttle, Headliner, Heater and Defroster, Side Windows, Cup Holder, Radio Ready, choice of Seat (Mechanical Suspension or High Back, Heated, Air Ride Seat) and Door (Glass or Polycarbonate)*
- Enclosed ROPS with A/C (C3): *C2 + Air Conditioner*

STANDARD EQUIPMENT

ELECTRICAL

- 12 volt Electrical System
- 100 ampere Alternator
- Ignition Key Start/Stop Switch
- Lights: *Gauge Backlighting, Two Rear Tail Lights, Two Rear Halogen Working Lights, Two Adjustable Front Halogen Lights, Dome Light*
- Backup Alarm
- Heavy Duty Battery, 850 CCA

OPERATOR ENVIRONMENT

- Gauges: *Fuel Level, DEF Level, Hour Meter*
- Operator Warning System Indicators: *Air Filter Restriction, Alternator Output, Armrest Raised/Operator Out of Seat, Engine Coolant Temperature, Engine Oil Pressure, Air Inlet Heater Activation, Hydraulic Filter Restriction, Hydraulic Oil Temperature, Park Brake Engaged, Engine Emission System*
- Adjustable Vinyl Seat
- Fold In Ergonomic Contoured Armrest
- Control Interlock System, when operator leaves seat or armrest raised: *Hydraulic System Disables, Hydrostatic Transmission Disables, Parking Brake Engages*
- ROPS Cab, Open, Tilt Up
- FOPS, Level I
- Top and Rear Windows
- Floor Mat
- Interior Rearview Mirror
- 12 volt Electric Socket
- Horn
- Hand (Dial) and Foot Throttle, Electronic with Decel Feature
- Adjustable Joystick Controls
- Advanced Display with Rearview Camera: *Full Color, 127 mm (5 in) LCD Screen, Advanced Multi-operator Security System, On-screen Adjustments for Implement Response, Hystat Drive Response and Creep Control*
- Storage Compartment with Netting

POWER TRAIN

- Cat C3.8, Turbo Diesel Engine, Meeting Tier 4 Final and Stage IV Emission Standards
- Air Cleaner, Dual Element, Radial Seal
- S-O-SSM Sampling Valve, Hydraulic Oil
- Filters, Cartridge-type, Hydraulic
- Filters, Canister-type, Fuel and Water Separator
- Radiator/Hydraulic Oil Cooler (side-by-side)
- Spring Applied, Hydraulically Released Parking Brakes
- Hydrostatic Transmission
- Four Wheel Chain Drive

OTHER

- Engine Enclosure, Lockable
- Extended Life Antifreeze, -37° C (-34° F)
- Machine Tie Down Points (6)
- Support, Lift Arm
- Hydraulic Oil Level Sight Gauge
- Radiator Coolant Level Sight Gauge
- Radiator, Expansion Bottle
- Cat ToughGuardTM Hose
- Auxiliary, Hydraulics, Continuous Flow
- Heavy Duty, Flat Faced Quick Disconnects with Integrated Pressure Release
- Split D-Ring to Route Work Tool Hoses Along Side of Left Lift Arm
- Electrical Outlet, Beacon
- Belly Pan Cleanout
- Variable Speed Demand Fan
- Product LinkTM PL240, Cellular

272D3 Skid Steer Loader

OPTIONAL ATTACHMENTS

- External Counterweights
- Beacon, Rotating
- Engine Block Heater – 120V
- Oil, Hydraulic, Cold Operation
- Paint, Custom
- Heavy Duty Battery, 850 CCA, with Battery Disconnect
- Heavy Duty Battery, 1,000 CCA, with Battery Disconnect
- Product Link PL641, Cellular
- Variable Speed Demand Fan with Reversing Functionality
- Bluetooth® Radio with Microphone (AM/FM/Weather Band Receiver with USB and Auxiliary Input Jack)

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

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