

engine		
Net Power - ISO 9249	223.5 kW	300 HP
Net Power - ISO 9249 (DIN)	304 HP (metric)	
Engine Model	Cat C7.1 TTA	
Engine power - ISO 14396	225 kW	302 HP
Engine power - ISO 14396 (DIN)	306 HP (metric)	
cylinder diameter	105 mm	4 in
Stroke	135 mm	5 in
Displacement	7.01 l	428 in³
Biodiesel performance	The highest usable level is B20¹	
Emissions meet China's National IV non-road emission standards.		

The nominal net power refers to the power output of an engine equipped with a fan, intake system, exhaust system, and alternator.

Under normal conditions, the power supplied at the flywheel at 2000 rpm. Nominal power is based on the power supplied at the time of manufacture.

The effectiveness is tested according to the specified standards.

¹Cat diesel engines require the use of ULSD (Ultra-Low Sulfur Diesel), which contains...

A mixture of sulfur content not exceeding 15 ppm or ULSD with the following low-carbon strength fuels²: (maximum of...)

20% biodiesel FAME (Fatty Acid Methyl Ester)\* or up to

It is 100% renewable diesel, HVO (Hydrotreated Vegetable Oil), and

GTL (Gas-to-liquid) fuel. See the guide for information on successful applications.

Please consult your Cat dealer or refer to "Caterpillar Machine Fluid Recommendations" (SEBU6250) for details.

Detailed information.

Engines without aftertreatment equipment can use up to 100% blended biodiesel.

The greenhouse gas emissions from the exhaust of low-carbon intensity fuels are basically the same as those from conventional fuels.

Hydraulic system		
Main system – maximum traffic	560 l/min	148 gpm
Maximum pressure - equipment	35000 kPa	5076 psi
Maximum pressure - Equipment - Lifting mode	38000 kPa	5511 psi
Maximum pressure - Maximum	35000 kPa	5076 psi
pressure during driving - Slewing	29400 kPa	4264 psi

Slewing mechanism		
Rotation speed	8.84 rpm	
Maximum slewing torque	143 kN·m	105250 ft·lbf

weight		
Working weight	36,900 kg	81400 lb

maintenance and refueling capacity		
Fuel tank capacity	600 l	158.5 gal
cooling system	39 l	10.2 gal
Engine oil	25 l	6.6 gal
Slewing drive - each	18 l	4.8 gal
Final drive - each	8 l	2.1 gal
hydraulic system - including oil tank	373 l	98.5 gal
hydraulic oil tank	161 l	42.5 gal
DEF box	50 l	13.2 gal

size		
boom	Stretch distance 6.5 m (21'4")	
Shoulder	Stretch distance 3.2 m (10'6")	
Bucket	1. 9/2. 12m³	
Loading height – Height of the top	3180 mm	10.5 ft
Handrail height	3180 mm	10.5 ft
Shipment length	11170 mm	36.8 ft
Tail swing radius	3530 mm	11.7 ft
counterweight clearance	1260 mm	4.2 ft
ground clearance	510 mm	1.8 ft
Track length	5030 mm	16.6 ft
Track track roller center distance	4040 mm	13.3 ft
Track gauge	2740 mm	9 ft
Transport width - 600 mm (24) track plates	3340 mm	10.11 ft

Working range and force		
boom	Stretch distance 6.5 m (21'4")	
Shoulder	Stretch distance: 3.2 m (10'6")	
Bucket	1. 9/2. 12m³	
Maximum excavation depth	7550 mm	24.8 ft
Maximum ground extension distance	11090 mm	36.4 ft
Maximum excavation height	10340 mm	33.9 ft
Maximum loading height	7050 mm	23.1 ft
Minimum loading height	2550 mm	8.4 ft
Maximum excavation depth with a 2440 mm (8 ft) flat bottom	7390 mm;	24.2 ft
Maximum vertical wall excavation depth:	5790 mm	19 ft
Bucket digging force - ISO	209 kN	46910 lbf
Stick digging force - ISO	166 kN	37270 lbf

air conditioning system		
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The air conditioning system on the machine contains the fluorinated greenhouse gas refrigerant R134a (global warming potential = 1430).

The system contains 1.00 kg of refrigerant, equivalent to 1.430 metric tons of carbon dioxide.

Note: Standards and selected equipment may differ.

	Standard	Optional		Standard	Optional
<b>CAT technology</b>			<b>driver's cab</b>		
Remote engine			High-resolution 203 mm (8") LCD touchscreen monitor,		
refresh and troubleshooting			automatic two-stage air conditioning,		
<b>Engine</b>			keyless push-button start engine control,		
Three selectable power modes: Powerful, Smart, and Fuel-Saving;			air-suspended seats,		
Automatic engine speed control;			Bluetooth radio with USB/auxiliary port,		
-18°C (0°F) cold start capability;			24V DC power outlet,		
Dual-core air filter with integrated pre-filter;			openable steel hatch,		
Remote cold start disable;			LED dome light		
Cylinder block heater;			rollers front sunshade,		
52°C (126°F) high-temperature environment cooling;			high-resolution 254 mm (10") LCD touchscreen monitor,		
Hydraulic reversible fan;			rollers, rear sunshade,		
-32°C (-25°F) cold start capability;			<b>hydraulic system.</b>		
<b>Safety and protection devices.</b>			Boom and stick regeneration circuit		
Caterpillar's one-button safety system			electronic main control valve		
can lock the circuit breaker.			automatic hydraulic oil preheating		
Caterpillar One-Key Safety System			capable of using bio-hydraulic oil		
Lockable External Toolbox/Storage Box			reverse rotary damping valve		
Lockable Safety Door, Fuel Tank, and Hydraulic Oil Tank Lock			automatic swing parking brake		
Lockable Drain Chamber			high-performance hydraulic return oil filter		
Maintenance Platform with Anti-Slip Plate and Embedded Bolts;			dual-speed travel		
Right-Hand Handrail and Handle.			single unidirectional circuit		
<b>Signal/Warning Horn.</b>			combined bidirectional circuit		
Ground Assist Engine Stop Switch,			hydraulic efficiency monitoring		
Rearview Camera			<b>maintenance and repair.</b>		
<b>Chassis System and Structure</b>			Vehicle Operation Status Integrated Management System		
Extended wide chassis system			Engine Oil Filter and Fuel Filter Grouping Layout		
chassis with traction ring			Plan Oil Sample Analysis SyOyS Sampling Port		
slewing guard,			<b>Boom and Stick</b>		
heavy-duty bottom guard,			6.5 m (21'4") heavy-duty extended boom;		
high-duty travel motor guard			2.8 m (9'2") heavy-duty extended stick;		
grease-lubricated track			3.2 m (10'6") heavy-duty extended stick;		
full-length track guide guard			DB series bucket linkage (with/without lifting lugs);		
segmented two-piece track guide guard			<b>Electrical system.</b>		
heavy-duty support roller,			Maintenance-free 1000 CCA batteries (2 units)		
heavy-duty slewing frame			LED external chassis and boom lights:		
heavy-duty slewing bearing			Maintenance-free 1000 CCA batteries (4 units)		
6.8 mt (14991 lb) counterweight					
7.56 mt (16667 lb) counterweight					
700 mm (28") three-grip track pads.					