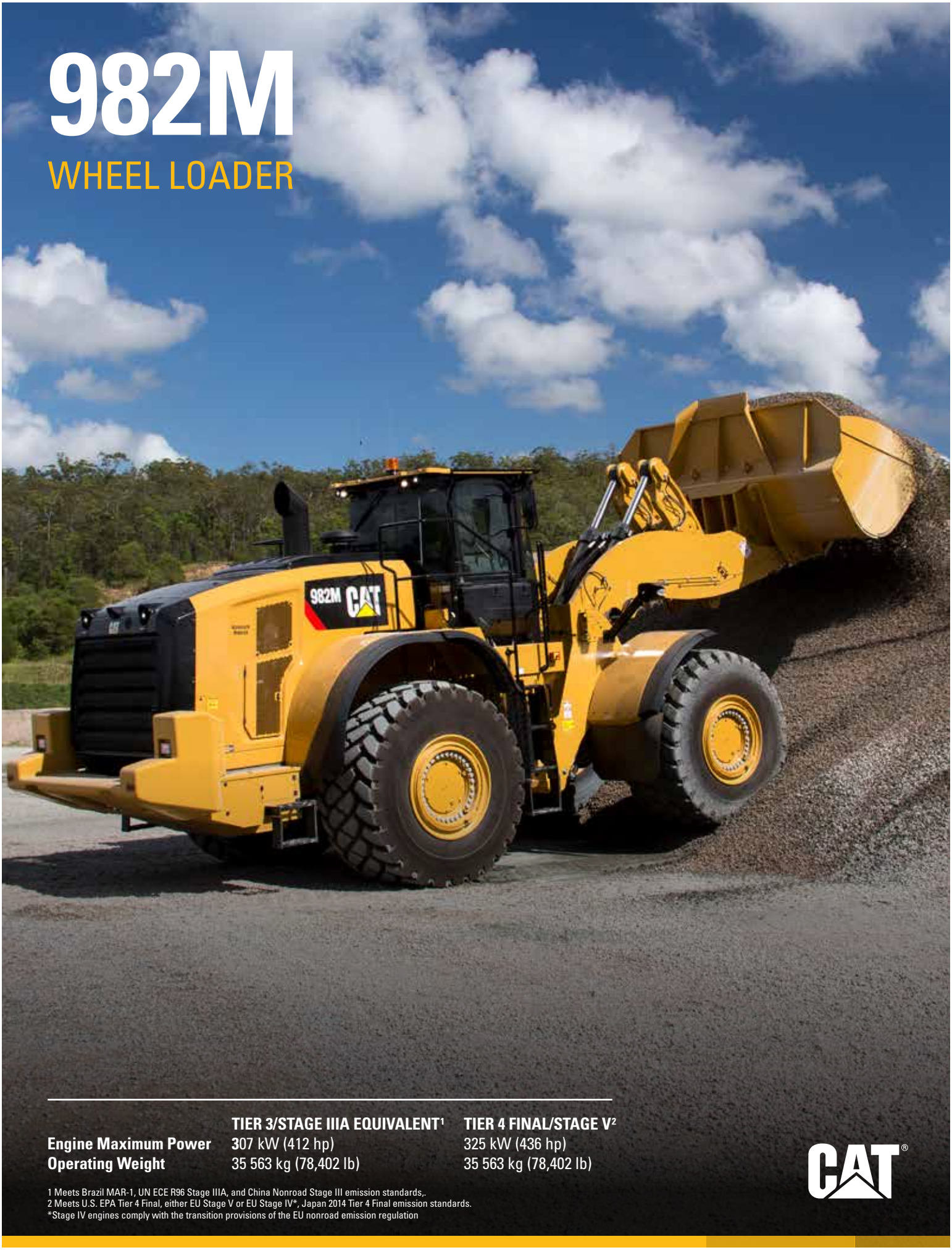
982M

WHEEL LOADER



	TIER 3/STAGE IIIA EQUIVALENT[1]	TIER 4 FINAL/STAGE V[2]
Engine Maximum Power	307 kW (412 hp)	325 kW (436 hp)
Operating Weight	35 563 kg (78,402 lb)	35 563 kg (78,402 lb)

1 Meets Brazil MAR-1, UN ECE R96 Stage IIIA, and China Nonroad Stage III emission standards,.
2 Meets U.S. EPA Tier 4 Final, either EU Stage V or EU Stage IV*, Japan 2014 Tier 4 Final emission standards.
*Stage IV engines comply with the transition provisions of the EU nonroad emission regulation

CAT® 982M

ALL-PURPOSE PERFORMANCE

The Cat® 982M Wheel Loader offers significant fuel savings while lowering long-term costs. Cat wheel loaders meet emission standards and are designed to improve fuel economy without interrupting performance. The reliability, durability, and versatility result in machines that are better built to meet your needs.



WHEEL LOADERS MADE FOR MORE

Cat wheel loaders were built with efficiency in mind, offering you the best in:

+ RELIABILITY
+ DURABILITY
+ PRODUCTIVITY
+ FUEL EFFICIENCY

Experience higher performance while reducing costs and fuel consumption with Cat wheel loaders.



GREATER
PRODUCTIVITY

Applying proven technology and components means more dependable results for your work.

BETTER
FUEL EFFICIENCY

Deep system integration results in lower fuel consumption on average as compared to previous generation machines.

EASIER
TO MAINTAIN

Extended engine oil, engine oil filter, hydraulic filter, and transmission oil change intervals save you time, money, and energy.

All comparisons to previous generation.

FAST PAYBACK

How **CAT PAYLOAD WITH PRODUCTION MEASUREMENT** paid for itself in less than a week for one quarry customer.*



PAYBACK: 6 DAYS

CALCULATE **YOUR** ESTIMATED PAYBACK TIME AT
MA-CATINFO.COM/PAYLOADCALCULATOR

*Your results will vary. Six-day payback and 17% productivity boost based on results from ma-catinfo.com/payloadcalculator

Not legal for trade.

RELIABLE, PROVEN **COMPONENTS & TECHNOLOGY**

Staying ahead of the competition, Caterpillar offers a wide variety of cutting-edge technologies to get the job done quickly and easily with outstanding accuracy.



COMPONENTS YOU CAN COUNT ON

Every machine is equipped with a combination of proven electronic, hydraulic cooling, and power train systems. Amplify your efficiency with better traction and enhanced work tools, delivering continuous productivity for your machine. Next generation fuel systems boost machine performance and fuel economy, lowering your overall costs and fuel consumption. You can rely on our components to save you time, money, and effort.



PRODUCTIVE RESULTS

WORK SMART AND MOVE MORE

The all-purpose 982M machine is a great two-pass match for larger on-highway trucks, bank excavation, and face loading in well shot rock loading applications.

PERFORMANCE SERIES BUCKETS

Easy-to-load Performance Series Buckets improve material retention and reduce dig times, significantly improving productivity and fuel efficiency, resulting in unsurpassed production capabilities with increased fill factors – ranging from 100% to 115%.

ADVANCED POWERSHIFT TRANSMISSION

Featuring a lock-up clutch torque converter, our power trains deliver smooth shifting, fast acceleration, and speed on grade, amplifying your performance and fuel efficiency.

BETTER TRACTION

Optional limited slip differentials increase traction, diminish tire scuffing, and further reduce your operating costs.

OPTIMIZED RIDE CONTROL SYSTEM

Dual accumulator system enables a wide payload range and a better ride. Improves ride quality and smoothness over rough terrain, increasing your confidence, comfort, and efficiency, ensuring excellent material retention.

AGGREGATE HANDLER

Aggregate packages are specialized offerings for loose aggregate rehandling applications. Payloads can be increased above other applications by installing larger buckets and counterweights in compliance with Caterpillar payload policy.

THE RIGHT TECHNOLOGIES

Fine-tuned for the right applications:

+ BETTER FUEL ECONOMY, MAXIMIZED UPTIME, AND LOWER MAINTENANCE COSTS
+ HIGH POWER AND PERFORMANCE ACROSS A VARIETY OF APPLICATIONS
+ ENHANCED RELIABILITY THROUGH COMMONALITY AND SIMPLICITY OF DESIGN
+ WORLD-CLASS SUPPORT FROM THE CAT DEALER NETWORK
+ DURABLE DESIGNS WITH LONG LIFE TO OVERHAUL

Increased power, heavy duty transmission, upgraded axle and final drives, and low profile tires are just a few of the advanced upgraded features the 982M has to offer.

ENHANCED POWER TRAIN

Our power trains come standard with a lock-up clutch transmission, matching the engine power to increase fuel efficiency while delivering optimal performance.

DURABLE AXLES

M Series axles are designed to handle your extreme applications. The rear axle oscillates to ±13 degrees for excellent stability and traction on even the roughest terrain.

QUICK COUPLERS AND WORK TOOLS

For versatility, buckets and components can be changed without leaving the cab, allowing the machine to quickly move from task to task.



OPTIMIZED HYDRAULICS

Our hydraulic systems come equipped with a mono-block main hydraulic valve. This design reduces weight while decreasing leak points by 40%.

DURABLE FRAMES

With upgraded frames and heavier counterweight, the robotically welded two-piece structural frame absorbs impact associated with excavation and loading, while the hitch system provides high bearing force capacity.

EXTENSIVE RANGE OF ATTACHMENTS

Do more jobs with one machine. An extensive range of work tools and bucket styles are available to customize these machines for your operation.

EXTENDED LIFT

The 982M has longer standard lift arms than the 980M, making it a great rail car loader due to the higher hinge pin height.

INCREASE PRODUCTIVITY AND EFFICIENCY UP TO 15%

CAT® CONNECT TECHNOLOGY



Technology gives you the edge. Operators of all experience levels will dig and load with more confidence, speed, and accuracy. The result? Better productivity and lower costs.

PAYLOAD

Provides you accurate weighing* of the materials you are loading and hauling. Payload data is displayed in real-time to improve productivity and reduce overloading. Optional Advanced Productivity subscription provides comprehensive actionable information to help you manage and improve the productivity and profitability of your operations.

DETECT

Enhances awareness of the environment around working equipment and provides alerts to help keep people and assets safe on the jobsite.

LINK

Wirelessly connects you to your equipment, giving you access to essential information you need to know to run your business. Gain valuable insight into how your machine or fleet is performing, allowing you to make timely, fact-based decisions that can boost jobsite efficiency and productivity.

*Not legal for trade.

REAL-TIME INFORMATION FROM CAT LINK
TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

Cat Link hardware (Product Link™) and software (VisionLink®) work together to put equipment information at your fingertips. Get real-time access to information on every machine in your fleet on any jobsite—no matter the size of the operation or the brands of equipment you run.



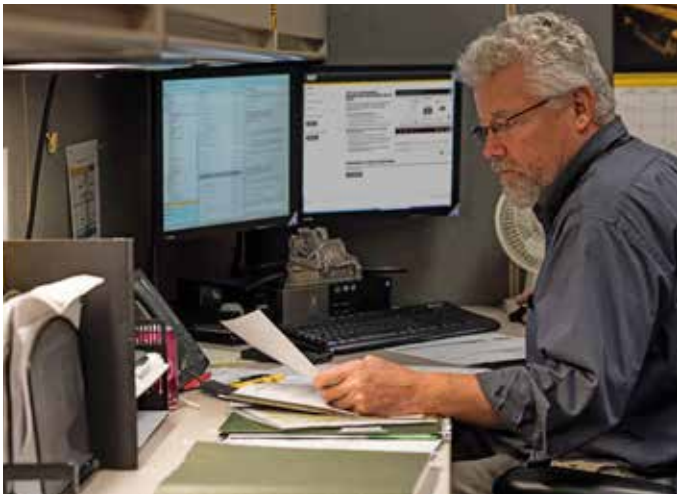
PRODUCT LINK

Track asset location, hours, fuel usage, diagnostic codes, idle time, and more to improve your productivity and lower your operating costs. Cellular connectivity comes standard. Satellite connectivity is available.



VISIONLINK

Using the online VisionLink interface, you can see a common, collective view of your information, making it easier to manage a mixed fleet and make informed decisions about your equipment.



MY.CAT.COM

You can also access Caterpillar and Cat dealer information at my.cat.com. My.cat.com gives you access to PM schedules, parts and service records, warranty coverage, and more—with a single login. Plus, you can link directly to your VisionLink account.

SUPERIOR FUEL EFFICIENCY



ENGINE AND EMISSIONS

High power density and fuel efficiency set our engines apart. Certified to meet emission standards, our engines feature Cat electronics, a fuel injection process, and air-management systems.

ADVANCED SYSTEM INTEGRATION

Lower fuel consumption resulting from the system integration of the engine and emissions system, power train, hydraulic system, and cooling system.

EFFICIENT ENGINE STRUCTURE

Significantly improved performance and fuel economy through engine speed and overall system heat load reduction.

PRODUCTIVE ECONOMY MODE

Automatically control engine torque and speed based on the machine's power train load, placing them in the most efficient operating range for fuel and performance.

NEXT GENERATION FUEL SYSTEMS

The HEUI™ fuel systems boost performance and reduce soot for the engine. Cat injection timing regulates the fuel injection process through a series of timed microbursts, providing more control of combustion for the cleanest, most efficient fuel burn.

CAT NOx REDUCTION SYSTEM

The Cat NOx Reduction System (NRS) captures and cools a small quantity of exhaust gas, then routes it back into the combustion chamber where it reduces temperatures and emissions (Tier 4 Final, Stage V only).

AFTERTREATMENT TECHNOLOGIES

The Selective Catalytic Reduction (SCR) has been added to our demonstrated aftertreatment solution, fully meeting emission standards (Tier 4 Final, Stage V only).

EASY TO OPERATE

SAFE. COMFORTABLE. ACCESSIBLE.

A quiet operating environment and intuitive controls help to reduce the fatigue, stresses, sounds, and temperatures of a demanding job.



CAB ACCESS

Inclined steps and convenient grab handles ease accessibility to the operating space.

BETTER RIDE CONTROL

The next generation of ride control works as a shock absorber, improving ride quality over rough terrain.

GREATER VISIBILITY

Extended windows enhance visibility while convex and spot mirrors extend the driver's view on the sides and rear.

ADVANCED SEAT

The next generation of operator comfort includes an easily adjustable seat with updated styling and a revolutionary suspension system. It comes in three trim levels and can be equipped with a 4-point harness.

NOISE REDUCTION

Sound-suppression, seals, and viscous cab mounts decrease noise for a quieter work environment.

JOYSTICK STEERING

The seat-mounted electro-hydraulic joystick steering system provides precision control and dramatically reduces arm fatigue, resulting in excellent comfort and accuracy.

SMARTER CONTROLS
AT YOUR FINGERTIPS

TOUCHSCREEN DISPLAY

Easy interface, machine controls, rear vision camera, intuitive navigation, and integrated Cat Production Measurement payload system let operators modify and monitor their machines instantly.



CENTRAL DISPLAY

Featuring a large text box with information about machine operation, features, system troubleshooting, and calibration, the central display is equipped with LED indicators and analog gauges, allowing the operator to easily analyze key systems.



CONTROL PANEL

With easy-to-reach controls and touchscreen display, the LED switch panel provides immediate access to frequently required functions, even while wearing gloves.





EASIER MAINTENANCE

MORE SAVINGS

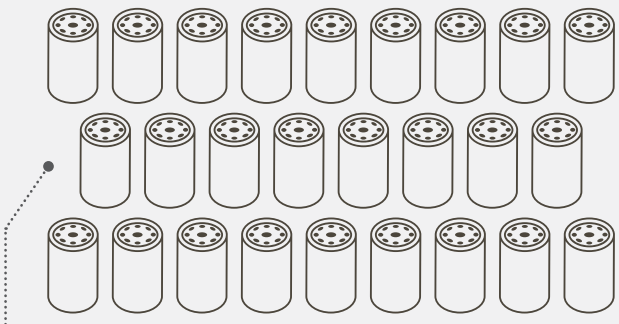
Cat wheel loaders are easy to maintain and service, eliminating any potential waste of time or money. Major components are rebuildable, giving the machine a second life, and often a third life.

KEY FEATURES SAVING YOU TIME, MONEY, AND ENERGY:

+ Extended engine oil and engine oil filter change interval up to 1,000 hours (Tier 4 Final, Stage V only)
+ Extended hydraulic filter change interval up to 1,000 hours
+ Extended transmission oil change interval up to 2,000 hours
+ Optional integrated Cat autolube system
+ Remote flash support
+ Longer tire life with on-the-go traction aids
+ Safe and simple preventive maintenance

LOWER MAINTENANCE COSTS

SAVE ON MAINTENANCE BY USING FEWER FILTERS



Extended filter change intervals mean using fewer filters over the machine's lifetime.



DO MORE JOBS

VERSATILE ATTACHMENTS AND COUPLERS

For worksites that demand more, you need a wheel loader that is purpose-built for the job. Cat work tools are engineered to handle all of your specific application needs.

QUICK COUPLERS AND WORK TOOL ATTACHMENTS

A wheel loader equipped with a quick coupler is a much more versatile machine. Buckets and work tools can be changed without leaving the cab – allowing the machine to quickly move from task to task. Consult your local dealer for availability of a variety of specialty buckets and forks.

HIGH LIFT LINKAGE

The optional high lift linkage offers increased hinge pin height to load more easily in a variety of applications with any type of bucket or fork.

+ Optimized linkage
+ Upgraded valve and cylinders
+ Higher B-pin height

STANDARD Z-BAR LINKAGE

The proven Z-bar linkage combines digging efficiency with sharp visibility, resulting in excellent excavation, high breakout forces, and superior production capabilities.

PERFORMANCE SERIES BUCKETS

With a full range of bucket sizes and types, the 982M provides an exciting new option in this size class. Performance Series Buckets use a system-based approach to balance bucket shape with the machine's lift and tilt capacity, weight, and linkage. A variety of work tools and bucket styles are available for a range of applications, including general purpose, material handling, heavy duty rock, and coal-style buckets.

+ Easy loading
+ Fuel efficient
+ Carry more
+ Lower operating costs
+ Higher productivity

Aggregate Handler
Aggregate packages make rehandling loose aggregate less stressful on the machine, which means payloads can be increased with the installation of larger buckets and counterweights.

Industrial and Waste Handler
Integrated guards to preserve your machine from the harsh environment of a scrap or waste handling application. The machine guarding is purpose built to protect major components and systems to ensure durability and reliability.

Forestry Arrangement
The forestry package includes a heavy-duty linkage, a larger tilt cylinder, and a heavier counterweight to handle the larger loads met in logging and mill yard applications. (Separately sold features may be required in some regions.)

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE – TIER 3/STAGE IIIA EQUIVALENT[1]		
Engine Model	Cat C13	
Maximum Power @ 1,800 rpm – SAE J1995	307 kW	412 hp
Maximum Power @ 1,800 rpm – ISO 14396	303 kW	406 hp
Maximum Net Power @ 1,800 rpm – SAE J1349	278 kW	373 hp
Maximum Net Power @ 1,800 rpm – ISO 9249	278 kW	373 hp
Peak Gross Torque (1,300 rpm) – SAE J1995	2192 N·m	1,617 lbf-ft
Peak Gross Torque (1,300 rpm) – ISO 14396	2172 N·m	1,602 lbf-ft
Maximum Net Torque (1,000 rpm)	2040 N·m	1,505 lbf-ft
Bore	130 mm	5.12 in
Stroke	157 mm	6.18 in
Displacement	12.5 L	763 in³

1 Meets Brazil MAR-1, UN ECE R96 Stage IIIA, and China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.

ENGINE – TIER 4 FINAL/STAGE V[2]		
Engine Model	Cat C13	
Maximum Power @ 1,700 rpm – SAE J1995	325 kW	436 hp
Maximum Power @ 1,700 rpm – ISO 14396	321 kW	430 hp
Maximum Net Power @ 1,700 rpm – SAE J1349	297 kW	398 hp
Maximum Net Power @ 1,700 rpm – ISO 9249	297 kW	398 hp
Peak Gross Torque (1,200 rpm) – SAE J1995	2206 N·m	1,627 lbf-ft
Peak Gross Torque (1,200 rpm) – ISO 14396	2182 N·m	1,609 lbf-ft
Maximum Net Torque (1,100 rpm)	2054 N·m	1,515 lbf-ft
Bore	130 mm	5.12 in
Stroke	157 mm	6.18 in
Displacement	12.5 L	763 in³

2 Meets U.S. EPA Tier 4 Final, either EU Stage V or EU Stage IV*, Japan 2014 Tier 4 Final emission standards.

* Stage IV engines comply with the transition provisions of the EU nonroad emission regulation

- The power ratings apply at the stated speed when tested under the reference conditions for the specified standards.
- The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner and aftertreatment.
- The gross power advertised is with the fan at maximum speed.

WEIGHTS		
Operating Weight	35 563 kg	78,402 lb

- Weight based on a machine configuration with Bridgestone 875/65R29 VLTS L4 radial tires, full fluids, operator, standard counterweight, cold start, roading fenders, Product Link, open differential axles (front/rear), secondary steering, sound suppression, and a 6.1 m³ (8.0 yd³) general purpose bucket with BOCE.

BUCKET CAPACITIES		
Bucket Range	4.6-12.0 m³	6.0-15.75 yd³

TRANSMISSION					
Forward 1	6.2 km/h	3.9 mph	Reverse 1	7.0 km/h	4.3 mph
Forward 2	11.9 km/h	7.4 mph	Reverse 2	13.6 km/h	8.5 mph
Forward 3	21.1 km/h	13.1 mph	Reverse 3	24.1 km/h	15.0 mph
Forward 4	37.5 km/h	23.3 mph	Reverse 4	39.5 km/h	24.5 mph

- Maximum travel speed in standard vehicle with empty bucket and standard L4 tires with 914 mm (36 in) roll radius.

OPERATING SPECIFICATIONS		
Static Tipping Load – Full 40° Turn		
With Tire Deflection	21 080 kg	46,473 lb
No Tire Deflection	22 393 kg	49,368 lb
Breakout Force	260 kN	58,450 lbf

- Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

AIR CONDITIONING SYSTEM

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.6 kg of refrigerant which has a CO_2 equivalent 2.288 metric tonne.

SERVICE REFILL CAPACITIES		
Fuel Tank	426 L	112.5 gal
DEF Tank	21 L	5.5 gal
Cooling System (Tier 4/Stage V)	53 L	14.0 gal
Cooling System (Tier 3/Stage IIIA equivalent)	45 L	12.0 gal
Crankcase	37 L	9.8 gal
Transmission	77 L	20.3 gal
Differentials and Final Drives – Front	92 L	24.3 gal
Differentials and Final Drives – Rear	92 L	24.3 gal
Hydraulic Tank	153 L	40 gal

SOUND	
With Cooling Fan Speed at Maximum Value:	
Operator Sound Pressure Level (ISO 6396:2008)	
Tier 3/Stage IIIA Equivalent	75 dB(A)
Tier 4 Final/Stage V	72 dB(A)
Exterior Sound Power Level (ISO 6395:2008)	112 dB(A)
Exterior Sound Pressure Level (SAE J88:2013)	78 dB(A)*

*Distance of 15 m (49.2 ft), moving forward in second gear ratio.

With Cooling Fan Speed at 70% of Maximum Value:**	
Operator Sound Pressure Level (ISO 6396:2008)	72 dB(A)
Exterior Sound Power Level	109 dB(A)***

**For machines in European Union countries and in countries that adopt the "EU Directives."

***European Union Directive "2000/14/EC" as amended by "2005/88/EC."

HYDRAULIC SYSTEM		
Implement Pump Type	Variable Displacement Piston	
Implement System		
Maximum Pump Output (2,250 rpm)	449 L/min	119 gal/min
Maximum Operating Pressure	34 300 kPa	4,975 psi
Optional 3rd Function Maximum Flow	240 L/min	63 gal/min
Optional 3rd Function Maximum Pressure	21 780 kPa	3,159 psi
Hydraulic Cycle Time with Rated Payload:		
Raise from Carry Position	5.3 Seconds	
Dump, at Maximum Raise	1.7 Seconds	
Lower, Empty, Float Down	3.1 Seconds	
Total	10.1 Seconds	

DIMENSIONS	Standard Lift		High Lift	
Height to Top of Hood	3083 mm	10'2"	3083 mm	10'2"
Height to Top of Exhaust Pipe	3719 mm	12'3"	3719 mm	12'3"
Height to Top of ROPS	3786 mm	12'6"	3786 mm	12'6"
Ground Clearance	426 mm	1'4"	426 mm	1'4"
Center Line of Rear Axle to Edge of Counterweight	2716 mm	8'11"	2823 mm	9'4"
Center Line of Rear Axle to Hitch	1900 mm	6'3"	1900 mm	6'3"
Wheelbase	3800 mm	12'6"	3800 mm	12'6"
Overall Length (without bucket)	8584 mm	28'2"	9083 mm	29'10"
Hinge Pin Height at Maximum Lift	4743 mm	15'6"	5153 mm	16'10"
Hinge Pin Height at Carry	790 mm	2'8"	897 mm	2'11"
Lift Arm Clearance at Maximum Lift	3884 mm	12'8"	4072.1 mm	13'4"
Rack Back at Maximum Lift	57 degrees		56 degrees	
Rack Back at Carry Height	48 degrees		49 degrees	
Rack Back at Ground	42 degrees		40 degrees	
Maximum Width over Tires	3499 mm	11'6"	3499 mm	11'6"
Tread Width	2540 mm	8'4"	2540 mm	8'4"

- All dimensions are approximate and based on Bridgestone 875/65R29 VLTS L4 radial tires.

STANDARD & OPTIONAL EQUIPMENT

Standard and optional equipment may vary. Consult your Cat dealer for details.

OPERATOR ENVIRONMENT	STANDARD	OPTIONAL
Cab, pressurized, sound suppression	●	
Door, remote opening system		●
Touchscreen display	●	
EH controls, SAL (single axis lever) lift and tilt function	●	
Seat, cloth, air suspension	●	
Seat, suede/cloth, air suspension, heated		●
Seat, leather/cloth, air suspension, heated/cooled		●
Radio, AM/FM/CD/USB/MP3, Bluetooth® with Satellite Sirius and XM		●
Mirrors, rearview external with integrated spot mirrors	●	
Air conditioner, heater, defroster (auto temp, fan)	●	
Windows, front, heavy duty, or full guards		●

CAT CONNECT TECHNOLOGIES	STANDARD	OPTIONAL
Link: Product Link	●	
Link: VIMS™		●
Detect: Rear vision camera	●	
Detect: Cat Rear Object Detection		●
Machine Security System		●
Printer, Aggregate Autodig, Cat Production Measurement 2.0		●

POWER TRAIN	STANDARD	OPTIONAL
Cat C13 engine, meets emission standards	●	
Emissions: CEM, DPF, DEF (Tier 4 Final/Stage V)	●	
Fuel priming pump, fuel/water separator	●	
Radiator, high debris, wide fin spacing		●
Fan, variable pitch fan, auto/manual control		●
Torque converter, lock up clutch	●	
Precleaner, engine air intake	●	
Brakes, full hydraulic, Integrated Braking System, wear indicators	●	
Axles, ecology drain	●	
Axles, limited slip differentials		●
LSD Differential, Front and Rear		●

HYDRAULICS	STANDARD	OPTIONAL
Hydraulic system, steering, load sensing	●	
Ride Control, 2V	●	
3rd function w/Ride Control		●
Oil sampling valves, hoses, Cat XT™	●	

ELECTRICAL	STANDARD	OPTIONAL
Starter, electric, heavy duty	●	
Starting and charging system, 24V	●	
Lights: Halogen, 4 work lights, 2 roading lights, 2 rear vision lights	●	
Lights: Additional 4 halogen work lights OR replace full lighting with LED packages		●

MONITORING SYSTEM	STANDARD	OPTIONAL
Gauges: Speedometer, temperature, fuel level, DEF level	●	
Indicators: Regeneration, temperature, pressure, battery, oil, DEF	●	

ADDITIONAL EQUIPMENT	STANDARD	OPTIONAL
Cat Autolube System		●
Fenders, roading		●
Guard, power train		●
Oil change, high speed engine		●
Precleaner, turbine		●
Precleaner, trash		●
Wheel chocks		●

LINKAGE	STANDARD	OPTIONAL
High Lift		●
Forestry		●
Quick Coupler ready		●
Linkage, Z-bar, cast crosstube/tilt lever	●	
Kickout, lift and tilt, automatic	●	

OTHER OPTIONAL CONFIGURATIONS	STANDARD	OPTIONAL
Aggregate Handler		●
Forestry		●
Industrial and Waste Handler		●
Steel Mill		●

Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area.

For additional information, refer to the Technical Specifications brochures for the 982M model available at www.cat.com or your Cat dealer.



オフロード法２０１４年
基準適合



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

AEXQ2448-00
2019 Product Update
Global

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