



# Cat<sup>®</sup> 982M

## Wheel Loader

*The 982M Wheel Loader has an ACERT™ engine equipped with a combination of proven electronic, fuel, air and aftertreatment components. Applying proven technologies systematically and strategically lets us meet our customer's high expectations for productivity, fuel efficiency, reliability and service life. Deep system integration results in reduced emissions, improved performance and improved fuel economy without interrupting machine performance making it seamless to operators.*

*This all-purpose machine is a great 2-pass match for larger on-highway trucks, bank excavation and even face loading in shot rock applications. The 982M has longer standard lift arms than the 980M making it a great rail car loader due to the higher hinge pin height. Aggregate Handler configuration is available.\*\**

### RELIABILITY, PRODUCTIVITY AND FUEL EFFICIENCY

- 10% more fuel efficient than K Series\*
- Up to 25% more efficient than H Series\*

#### Linkage and Work Tools

- New linkage with improved performance and dump clearance
- Performance Series buckets and range of work tools
- Coupler ready (option)

#### Engine and Aftertreatment Advancements

- Cat<sup>®</sup> engine with ACERT™ Technology
- U.S. EPA Tier 4 Final and EU Stage IV emission standards
- Cat Clean Emissions Module with Selective Catalytic Reduction and automatic Cat Regeneration System
- Productive economy mode

#### Transmission Advancements

- Powershift transmission with single clutch speed shifts and torque based down shifts
- Lock up clutch torque converter with lock-to-lock shifting
- Split flow oil system and multi-viscosity oil

#### Axle Advancements

- Caliper disk parking brake
- Limited slip differentials (option)

#### Next Generation Hydraulic Systems

- Next generation main valve
- Next generation ride control system with dual accumulators
- Full flow and kidney loop filtration
- Load-sensing hydraulics with simultaneous hydraulic functions
- 3rd function (option)

### EASE OF OPERATION

#### Best-in-class Operator Environment

- Optimized all-around visibility
- E-H joystick steering (steering wheel optional)
- Touch screen multifunction color display with integrated controls and rearview camera
- Stair-like ingress and egress
- New wider door and increased glass area
- Seat-mounted fingertip electro-hydraulic implement controls
- Large convex rearview mirrors with integrated spot mirror
- Remote door opening (option)
- Automatic climate control
- Viscous cab mounts
- Low operator sound levels

#### Advanced Technology with Cat Connect

- Link technologies, like Product Link™ to monitor equipment and manage production using online VisionLink® software
- Payload technologies, like Cat Production Measurement (option) to measure payloads and optimize productivity
- Detect technologies, like the rear vision camera to keep people safe and help the operator work more productively

### SERVICE ACCESS

- One-piece tilting hood with side and rear doors
- Centralized service centers for hydraulic and electrical components
- Windshield cleaning platform and harness tie-off

\*Fuel efficiency is measured in mass of material moved per volume of fuel burned. Average efficiency improvement as tested and analyzed for an average composite cycle and stand configuration with variations per comparable model with and without economy mode active. Factors influence result variation such as, but not limited to, machine configuration, operator technique, machine application, climate, etc.

\*\*Optional configuration and equipment may vary from region to region. Consult your Caterpillar representative for further details.



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## Engine

|  |               |                     |
|--|---------------|---------------------|
| Engine Model                                     | Cat C13 ACERT |                     |
| Max Gross Power @ 1,700 rpm – SAE J1995          | 325 kW        | 436 hp              |
| Max Gross Power @ 1,700 rpm – SAE J1995 (metric) | 442 hp        |                     |
| Max Gross Power @ 1,700 rpm – ISO 14396          | 321 kW        | 430 hp              |
| Max Gross Power @ 1,700 rpm – ISO 14396 (metric) | 436 hp        |                     |
| Max Net Power @ 1,700 rpm – SAE J1349            | 297 kW        | 398 hp              |
| Max Net Power @ 1,700 rpm – SAE J1349 (metric)   | 404 hp        |                     |
| Max Net Power @ 1,700 rpm – ISO 9249             | 297 kW        | 398 hp              |
| Max Net Power @ 1,700 rpm – ISO 9249 (metric)    | 404 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)                   | 2058 N·m      | 1,518 lbf·ft        |
| Displacement                                     | 12.5 L        | 763 in <sup>3</sup> |

## Weights

|  |           |           |
|--|-----------|-----------|
| Operating Weight   | 35 563 kg | 78,402 lb |
| <ul style="list-style-type: none"> <li>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, secondary steering, sound suppression, and a 6.1 m<sup>3</sup> (8.0 yd<sup>3</sup>) GP bucket with BOCE.</li> </ul> |           |           |

## Bucket Capacities

|              |                         |                           |
|--------------|-------------------------|---------------------------|
| Bucket Range | 4.6-12.0 m <sup>3</sup> | 6.0-15.75 yd <sup>3</sup> |
|--------------|-------------------------|---------------------------|

## Operating Specifications

|   |           |            |
|---|-----------|------------|
| Static Tipping Load – Full 40° Turn – with Tire Deflection  | 21 080 kg | 46,473 lb  |
| Static Tipping Load – Full 40° Turn – No Tire Deflection  | 22 393 kg | 49,368 lb  |
| Breakout Force  | 260 kN    | 58,450 lbf |
| <ul style="list-style-type: none"> <li>For a machine configuration as defined under “Weight.”</li> <li>Full compliance to ISO 143971:2007 Sections 1 thru 6.</li> </ul> |           |            |

## Transmission

|   |           |          |
|---|-----------|----------|
| Forward 1   | 6.2 km/h  | 3.9 mph  |
| Forward 2   | 11.9 km/h | 7.4 mph  |
| Forward 3   | 21.1 km/h | 13.1 mph |
| Forward 4   | 37.5 km/h | 23.3 mph |
| Reverse 1   | 7.0 km/h  | 4.3 mph  |
| Reverse 2   | 13.6 km/h | 8.5 mph  |
| Reverse 3   | 24.1 km/h | 15 mph   |
| Reverse 4   | 40.0 km/h | 24.9 mph |
| <ul style="list-style-type: none"> <li>Maximum travel speed in standard vehicle with empty bucket and standard L4 tires with 914 mm (36 in) roll radius.</li> </ul> |           |          |

## Service Refill Capacities

|  |       |          |
|--|-------|----------|
| Fuel Tank                              | 441 L | 116 gal  |
| DEF tank                               | 21 L  | 5.5 gal  |
| Cooling System                         | 53 L  | 14 gal   |
| Crankcase                              | 37 L  | 9.8 gal  |
| Transmission                           | 90 L  | 23.8 gal |
| Differentials and Final Drives – Front | 92 L  | 24.3 gal |
| Differentials and Final Drives – Rear  | 92 L  | 24.3 gal |
| Hydraulic Tank                         | 180 L | 48 gal   |

## Hydraulic System

|                                 |              |             |
|---------------------------------|--------------|-------------|
| Implement System:               |              |             |
| Maximum Pump Output (2,250 rpm) | 449 L/min    | 119 gal/min |
| Maximum Operating Pressure      | 34 300 kPa   | 4,975 psi   |
| Hydraulic Cycle Time – Total    | 10.1 Seconds |             |

## Sound

|   |           |
|---|-----------|
| With Cooling Fan Speed at Maximum Value:      |           |
| Operator Sound Pressure Level (ISO 6396:2008) | 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.

## Dimensions

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

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

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AEXQ0990-02 (03-2016)  
Replaces AEXQ0990-01

