Features:

- **High Performance Engine** – The Cat® C175-16 engine offers reliability and durability with proven performance in the large mining truck application.
- **Focus on Safety** – Wide access stairways, service platforms for the engine, traction alternator and control cabinet, four corner wet disc brakes, and industry leading retarding.
- **Enhanced Serviceability** – Open engine and traction alternator access, simplified hydraulics, grouped electrical and hydraulic routing, ground level filters and service points.
- **Reliable AC Electric Drive System** – The Cat AC electric drive power train is Caterpillar designed, integrated and supported.
- **Comfortable Cab** – Operators find the spacious and quiet cab offers excellent visibility with intuitive, easy to learn controls.
- **Truck Body Options** – Caterpillar designed and built bodies provide optimal performance and reliability.

Specifications

### Engine

<table>
<thead>
<tr>
<th>Feature</th>
<th>Cat C175-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Model</td>
<td>Cat C175-16</td>
</tr>
<tr>
<td>Gross Power – SAE J1995</td>
<td></td>
</tr>
<tr>
<td>Standard</td>
<td>2610 kW</td>
</tr>
<tr>
<td>Optional</td>
<td>2312 kW</td>
</tr>
<tr>
<td>Rated Speed</td>
<td>1,800 rpm</td>
</tr>
<tr>
<td>Net Power – SAE J1349</td>
<td>2539 kW</td>
</tr>
<tr>
<td>Emissions Rating</td>
<td>Fuel Optimized</td>
</tr>
<tr>
<td>Bore</td>
<td>175 mm</td>
</tr>
<tr>
<td>Stroke</td>
<td>220 mm</td>
</tr>
<tr>
<td>Displacement</td>
<td>85 L</td>
</tr>
</tbody>
</table>

- Contact factory for high altitude configuration.

### Weights – approximate

<table>
<thead>
<tr>
<th>Feature</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Gross Machine Weight (TGMW)</td>
<td>623 690 kg 1,375,000 lb</td>
</tr>
<tr>
<td>Chassis Weight</td>
<td>204 623 kg 451,116 lb</td>
</tr>
<tr>
<td>Body Weight</td>
<td>37 564- 82,814-</td>
</tr>
<tr>
<td></td>
<td>41 936 kg 92,453 lb</td>
</tr>
</tbody>
</table>

- Consult your tire manufacturer for maximum tire load.
- Chassis weight with 100% fuel, hoist, body mounting group, rims, and tires.
- Body weight varies depending on how body is equipped.

### Operating Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Payload Capacity</td>
<td>372 tonnes</td>
</tr>
<tr>
<td>Top Speed – Loaded</td>
<td>64 km/h</td>
</tr>
<tr>
<td>Steer Angle</td>
<td>39 degrees</td>
</tr>
<tr>
<td>Minimum Turning Radius</td>
<td>16.2 m</td>
</tr>
</tbody>
</table>

- Payload assumes no debris, no extra options or attachments.
- Refer to the Cat Mining Truck 10/10/20 Overload Policy (AEXQ0250) for maximum gross machine weight limitations.

### Final Drives

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Reduction Ratio</td>
<td>35:1</td>
</tr>
</tbody>
</table>

### AC Drive System

- **Generator/Alternator** – Brushless, engine mounted, dual bearing
- **Controls** – IGBT Inverter Technology, air cooled, pressurized cabinet with filtration
- **Wheel Motor** – Cat AC induction, rear axle mounted
- **Cooling System** – Variable speed, hydraulically driven cooling system

### Tires

- 59/80 R63.
- Production capabilities of the 798 AC truck are such that, under certain job conditions, TKPH (TMPH) capabilities could be exceeded and, therefore, limit production.
- Caterpillar recommends the customer evaluate all job conditions and consult tire manufacturer for proper tire selection.
Braking System

<table>
<thead>
<tr>
<th>Surface Area</th>
<th>Front Wet Disc</th>
<th>Rear Wet Disc</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area</td>
<td>131 473 cm²</td>
<td>198 388 cm²</td>
</tr>
<tr>
<td>Standards</td>
<td>ISO 3450:2011</td>
<td></td>
</tr>
</tbody>
</table>

Electric Retarding – Radial Grid Design
Dynamic Retarding Power
Continuous 4086 kW 5,480 hp

Weight Distributions – approximate

<table>
<thead>
<tr>
<th>Distribution</th>
<th>Front Axle – Empty</th>
<th>Rear Axle – Empty</th>
<th>Front Axle – Loaded</th>
<th>Rear Axle – Loaded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Empty</td>
<td>47%</td>
<td>53%</td>
<td>33%</td>
<td>67%</td>
</tr>
</tbody>
</table>

Capacity – HE Body – 100% fill factor

<table>
<thead>
<tr>
<th>Capacity Type</th>
<th>Struck (SAE 2:1)</th>
<th>Heaped (SAE 2:1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume</td>
<td>126.4-187.2 m³</td>
<td>215.4-286 m³</td>
</tr>
<tr>
<td>Volume</td>
<td>165-245 yd³</td>
<td>282-348 yd³</td>
</tr>
</tbody>
</table>

Dump Body Plate Thickness Varies Depending on Body Selection

<table>
<thead>
<tr>
<th>Plate Type</th>
<th>Thickness</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor Plate</td>
<td>25.4 mm</td>
<td>1.00 in</td>
</tr>
<tr>
<td>Front Plate</td>
<td>12.7 mm</td>
<td>0.50 in</td>
</tr>
<tr>
<td>Side Plate</td>
<td>9.5 mm</td>
<td>0.38 in</td>
</tr>
<tr>
<td>Canopy Plate</td>
<td>5 mm</td>
<td>0.20 in</td>
</tr>
</tbody>
</table>

Contact your local Cat dealer for body recommendations.

Service Refill Capacities

<table>
<thead>
<tr>
<th>Component</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Tank</td>
<td>4922 L</td>
</tr>
<tr>
<td>Cooling System</td>
<td>799 L</td>
</tr>
<tr>
<td>Crankcase</td>
<td>310 L</td>
</tr>
<tr>
<td>Final Drives</td>
<td>254 L</td>
</tr>
<tr>
<td>Hydraulic Tank</td>
<td>1121 L</td>
</tr>
<tr>
<td>Hydraulic System</td>
<td>1458 L</td>
</tr>
<tr>
<td>Crankcase</td>
<td>310 L</td>
</tr>
<tr>
<td>Final Drives</td>
<td>254 L</td>
</tr>
<tr>
<td>Hydraulic Tank</td>
<td>1121 L</td>
</tr>
<tr>
<td>Hydraulic System</td>
<td>1458 L</td>
</tr>
</tbody>
</table>

ROPS/FOPS Standards


Sound

Sound Standard

- The operator sound pressure level measured according to work cycle procedures specified in ISO 6394:2008 and ISO 6396:2008 is 75 dB(A) for cab offered by Caterpillar when properly installed, maintained, and tested with doors and windows closed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in a noisy environment.

Steering

Steering Standards ISO 5010:2007

- Target Gross Machine Weight is 623 690 kg (1,375,000 lb).

Dimensions

All dimensions are approximate.
Shown with SAE 2:1 230 m³ (301 yd³) HE Body.

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height to Top of ROPS</td>
<td>6742 mm</td>
<td>22’1”</td>
</tr>
<tr>
<td>Overall Length</td>
<td>15 724 mm</td>
<td>51’7”</td>
</tr>
<tr>
<td>Wheelbase</td>
<td>6658 mm</td>
<td>21’10”</td>
</tr>
<tr>
<td>Rear Axle to Tail</td>
<td>4916 mm</td>
<td>16’2”</td>
</tr>
<tr>
<td>Ground Clearance</td>
<td>1026 mm</td>
<td>3’4”</td>
</tr>
<tr>
<td>Dump Clearance</td>
<td>1809 mm</td>
<td>5’11”</td>
</tr>
<tr>
<td>Loading Height – Empty</td>
<td>7850 mm</td>
<td>25’9”</td>
</tr>
<tr>
<td>Overall Height – Body Raised</td>
<td>15 011 mm</td>
<td>49’3”</td>
</tr>
<tr>
<td>Centerline Front Tire Width</td>
<td>7024 mm</td>
<td>23’1”</td>
</tr>
<tr>
<td>Front Axle Clearance</td>
<td>1026 mm</td>
<td>3’4”</td>
</tr>
<tr>
<td>Canopy Width (without optional rock deflectors)</td>
<td>9638 mm</td>
<td>31’7”</td>
</tr>
<tr>
<td>Outside Body Width</td>
<td>9638 mm</td>
<td>31’7”</td>
</tr>
<tr>
<td>Inside Body Width</td>
<td>9160 mm</td>
<td>30’1”</td>
</tr>
<tr>
<td>Front Canopy Height</td>
<td>7928 mm</td>
<td>26’0”</td>
</tr>
<tr>
<td>Rear Axle Clearance</td>
<td>1094 mm</td>
<td>3’7”</td>
</tr>
<tr>
<td>Centerline Rear Dual Tire Width</td>
<td>5943 mm</td>
<td>19’6”</td>
</tr>
<tr>
<td>Overall Tire Width</td>
<td>9243 mm</td>
<td>30’4”</td>
</tr>
</tbody>
</table>
STANDARD EQUIPMENT

POWER TRAIN
- C175-16 Diesel Engine
  - Turbocharging (4)/aftercooled
  - Air to air after cooler (ATAAC)
  - Air cleaner (4) with precleaner
  - Multi-point oil pressure sensing
  - Pre-lubrication/engine
- Braking system:
  - Brake release towing
  - Oil-cooled, multi-disc (front and rear) (service, retarding, parking, secondary)
  - Automatic Retarder Control
  - Electric dynamic retarding with blended low speed
  - Extended life brake disc material
- Cat AC drive train:
  - IGBT controlled AC induction motors
  - AC generator
  - AC cooled radial grid
  - Body-up reverse neutralizer
  - Programmable top speed
  - Rear axle continuous lube/filtration
  - Rear axle oil cooler
  - Reverse shift inhibitor
  - Directional shift management
  - Standard accumulator – Australian and Canadian certified
  - Neutral coast inhibitor
  - Body-up shift inhibitor
  - Neutral start inhibitor

ELECTRICAL
- Alarm, backup
- Brushless alternator 225 amp charging
- Batteries – 12V (8) 90 amp hour
- Converter, 12V electrical
- Electrical system, 24V, 10, 15, 20 amp fuses and breakers
- Battery charge receptacle
- Lighting, signals/service:
  - LED lighting package
  - Backup and hazard lighting
  - Directional signals (front and rear LED)
  - Front stair access/service deck
  - Stop/tail lights (LED)
  - Engine compartment
  - Inverter energy LED warning lights

OPERATOR ENVIRONMENT
- Air conditioner
- 12V DC power supply (1)
- Cup holder (2)
- Diagnostic connection port
- Dome courtesy light
- Entertainment radio ready:
  - 20 amp switched/10 amp memory converter
  - Speakers, and wiring harnesses
- Gauges/indicators
- Gauge panel:
  - Hydraulic oil temperature
  - Engine coolant temperature
  - Fuel level
  - Electric engine control fault indicator
  - Electric hour meter
  - Speedometer
  - Tachometer
  - VIMS message center advisor
- Heater/defroster
- Storage space behind seat
- ROPS cab, insulated/sound suppressed
- Seat, operator, air suspension
- Seatbelt, operator, three points
- Seat, trainer, air suspension
- Seatbelt, trainer, two point
- Steering wheel, tilt, telescopic
- Tinted glass
- Window, electric powered, operator/passenger
- Wiper, windshield, intermittent control and washer
- Fixed access ladder

FLUIDS
- Extended life coolant to –35° C (~–30° F)

OTHER STANDARD EQUIPMENT
- Traction control system
- Auxiliary “buddy” dumping quick connect
- Auxiliary steering quick connect (towing)
- Rotating component guards
- Fast fill fuel system (RH side)
- Fuel filter with water separator
- Ground level battery lockout
- Machine lockout
- Engine start lockout
- Ground level engine shut-down
- Rock ejectors (chain)
- Tow hooks and pin (front)
- Tow pin (rear) (empty truck only)
- Mudflaps
- Automatic lubrication system
- S·O·SSM sample points (hydraulic, cooling, engine)
- Payload red/green indicator
- Cat DETECT radar and camera system
- Product Link™ Elite
- 4922 L (1,300 gal) fuel tank and fast fill system (right hand fill)
### 798 AC Mining Truck

#### OPTIONAL EQUIPMENT

- 2312 kW (3,100 hp) setting available
- Throttle lock
- Timer, engine shutdown
- Body heat exhaust
- Fog lights
- LED Work Lights
- English or Metric gauges
- Payload, digital display
- Powered access ladder
- Inverter platform

- Fast fill fuel system (front and left)
- Rims: Six (6) position and quick change
- ANSI and ISO service instructions
- Retarding indicator light
- Front bumper center tow attachment
- Brake wear indicator tool
- Coolant –50° C (–58° F)
- HE dump body rock box liner
- Heated mirrors (LH and RH)
- Wheel chocks (ANSI and ISO)

- Portable fire extinguisher
- Murphy gauge
- High efficiency dump body
  - 1530 kg/m³ (2,580 lb/yd³) density body
  - 1650 kg/m³ (2,780 lb/yd³) density body
  - 1770 kg/m³ (2,980 lb/yd³) density body
- Side profile lighting
- Central service

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