**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>Specification</th>
<th>Value</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 3,500 hp</td>
</tr>
<tr>
<td>Optional</td>
<td>2312 kW 3,100 hp</td>
</tr>
<tr>
<td>Rated Speed</td>
<td>1,800 rpm</td>
</tr>
<tr>
<td>Net Power – SAE J1349</td>
<td>2539 kW 3,405 hp</td>
</tr>
<tr>
<td>Emissions Rating</td>
<td>Fuel Optimized</td>
</tr>
<tr>
<td>Bore</td>
<td>175 mm 6.9 in</td>
</tr>
<tr>
<td>Stroke</td>
<td>220 mm 8.7 in</td>
</tr>
<tr>
<td>Displacement</td>
<td>85 L 5,187 in³</td>
</tr>
</tbody>
</table>

- Contact factory for high altitude configuration.

### Weights – approximate

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Gross Machine Weight (TGMW)</td>
<td>576 072 kg 1,270,000 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>39 289 kg 86,618 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>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Payload Capacity</td>
<td>327 tonnes 360 tons</td>
</tr>
<tr>
<td>Top Speed – Loaded</td>
<td>64 km/h 40 mph</td>
</tr>
<tr>
<td>Steer Angle</td>
<td>39 degrees</td>
</tr>
<tr>
<td>Minimum Turning Radius</td>
<td>16.2 m 53 ft</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>Specification</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

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### Tires

- 59/80 R63.
- Production capabilities of the 796 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

Front Wet Disc Brake Surface Area 131 473 cm\(^2\) 20,378 in\(^2\)
Rear Wet Disc Brake Surface Area 198 388 cm\(^2\) 30,750 in\(^2\)
Standards ISO 3450:2011
Electric Retarding – Radial Grid Design
Dynamic Retarding Power
  Continuous 4086 kW 5,480 hp

Weight Distributions – approximate

Front Axle – Empty 47%
Rear Axle – Empty 53%
Front Axle – Loaded 33%
Rear Axle – Loaded 67%

Capacity – HE Body – 100% fill factor

Struck 101-147 m\(^3\) 133-192 yd\(^3\)
Heaped (SAE 2:1) 193-234 m\(^3\) 252-307 yd\(^3\)
Dump Body Plate Thickness Varies Depending on Body Selection
  Floor Plate 25.4 mm 1 in
  Front Plate 12.7 mm 0.5 in
  Side Plate 9.5 mm 0.38 in
  Canopy Plate 5 mm 0.20 in

Service Refill Capacities

Fuel Tank 4922 L 1,300 gal
Cooling System 799 L 211 gal
Crankcase 310 L 82 gal
Final Drives, each 254 L 67 gal
Hydraulic Tank 1121 L 296 gal
Hydraulic System (includes tank) 1458 L 385 gal

ROPS

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 576 072 kg (1,270,000 lb).
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

Cat AC drive train:
- 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)
### 796 AC Mining Truck

#### OPTIONAL EQUIPMENT

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2312 kW (3,100 hp) setting available</td>
<td>Fast fill fuel system (front and left)</td>
</tr>
<tr>
<td>Throttle lock</td>
<td>Rims: Six (6) position and quick change</td>
</tr>
<tr>
<td>Timer, engine shutdown</td>
<td>ANSI and ISO service instructions</td>
</tr>
<tr>
<td>Body heat exhaust</td>
<td>Retarding indicator light</td>
</tr>
<tr>
<td>Fog lights</td>
<td>Front bumper center tow attachment</td>
</tr>
<tr>
<td>LED work lights</td>
<td>Brake wear indicator tool</td>
</tr>
<tr>
<td>English or Metric gauges</td>
<td>Coolant –50° C (–58° F)</td>
</tr>
<tr>
<td>Payload, digital display</td>
<td>HE dump body rock box liner</td>
</tr>
<tr>
<td>Powered access ladder</td>
<td>Heated mirrors (LH and RH)</td>
</tr>
<tr>
<td>Inverter platform</td>
<td>Wheel chocks (ANSI and ISO)</td>
</tr>
<tr>
<td></td>
<td>Portable fire extinguisher</td>
</tr>
<tr>
<td></td>
<td>Murphy gauge</td>
</tr>
<tr>
<td></td>
<td>High efficiency dump body</td>
</tr>
<tr>
<td></td>
<td>• 1530 kg/m³ (2,580 lb/yd³) density body</td>
</tr>
<tr>
<td></td>
<td>• 1650 kg/m³ (2,780 lb/yd³) density body</td>
</tr>
<tr>
<td></td>
<td>• 1770 kg/m³ (2,980 lb/yd³) density body</td>
</tr>
<tr>
<td></td>
<td>Side profile lighting</td>
</tr>
<tr>
<td></td>
<td>Central service</td>
</tr>
</tbody>
</table>

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