# **793** MINING TRUCK



Engine:

C175-16

Gross Power – SAE J1995: 1 976 kW / 2,650 HP
Gross Weight: 404 000 kg / 890,668 lb
386 007 kg / 851,000 lb
Nominal Payload: 231-240 tonnes / 255-265 tons



CAT® MINING TRUCKS

# YOUR PARTNER FOR THE LONG HAUL

Cat® mining trucks have been around for generations, and each new class brings cutting-edge technology built on a foundation of industry leadership. The longevity of Cat mining trucks is no mystery. It's a product of purpose-driven engineering, intense customer focus and technology that meets today's industry requirements. They're built to be rebuilt and here for the long haul.





What can you expect from your Cat mining truck? The lowest cost per ton over its life.

A lot goes into delivering that value. Like high speed on grade for improved productivity. A class-leading standard payload. Anytime braking plus front and rear wheel retarding for more confident operators. Total Cat integration, which results in highly efficient systems and performance. And high reliability, so trucks spend more time hauling material than they do sitting in the maintenance shop.

With a truck for every site and application—no matter the size class or drive system—and a broad lineup of loading tools, Caterpillar offers a complete loading and hauling solution that delivers a better bottom line to the most important mine in the world: yours.

## THE NEXT GENERATION OF PRODUCTIVE HAULING

The Cat 793 is designed to be the most efficient and productive truck available in its size class. If there was one word to describe the hundreds of improvements we've made in our next generation products, it would be "optimized."

We've optimized the operator experience, making the machine safer and more comfortable, and incorporating features that make their jobs easier, more consistent and more predictable. We've optimized electronics and connectivity, providing faster and easier access to data and streamlining technology integration. We've optimized machine health, with improved data analytics and new diagnostic capabilities. We've optimized maintenance, with modular features and consolidated components that make service faster and easier.

And we've done it all for one reason: So you can experience optimization in your hauling operation — and boost your bottom line.

# **CAT** 793

THE GOLD STANDARD IN COST PER TON



The Cat 793 Mining Truck is a popular industry workhorse that is the ideal choice for a wide variety of applications. It delivers high availability and hauls more every load, every cycle and every shift when compared to competitive trucks in its size class—burning less fuel in the process.

Next generation features take the 793 to a new level. The operator sits in a state-of-the-art environment designed for efficiency and equipped with features that increase comfort, automate functions, provide real-time information and boost confidence. The 793 also delivers significant improvements in serviceability and reliability, enhanced connectivity and easier technology integration — including autonomous haulage. These improvements — and more — take an already proven truck to the next level of productivity.

#### **OVER 10% MORE FUEL EFFICIENT\***

More productivity, lower fuel consumption and industry-leading powertrain efficiency = greater fuel efficiency vs. the competition

#### **UP TO 10% FASTER CYCLE TIMES\***

- + Travel at a class-leading speed of 12.9 kph / 8 mph on 10% grade
- + Top speed of 60 kph / 37 mph
- + Capable of traveling at a maximum 28% grade loaded

\*compared to competitive trucks

#### **OVER 30%** PRODUCTIVITY BOOST WITH AUTONOMY

- + Up to 11% better fuel efficiency compared to staffed trucks
- + Cat MineStar<sup>™</sup> Command for hauling is a fully integrated factory offering
- + 500+ autonomous trucks in service
- + Nearly 5 billion tonnes hauled by trucks equipped with Command
- + Near continuous utilization
- + 35% increase in useful tire life



#### LOWERING COST PER TON

With offerings in both electric and mechanical drive and payloads ranging from 136 to 372 tonnes (150 to 410 tons), Caterpillar can offer a truck for every type of mining application. But one thing all the models have in common is the philosophy we follow in their design. Whatever measurement you use for material movement, our goal is to help you optimize that cycle — lowering cost per ton.





#### A PROVEN DESIGN PHILOSOPHY

When it comes to making Cat large mining trucks, we follow a proven design philosophy that focuses around five main areas:

- 1. MAKING A SUSTAINED INVESTMENT IN RESEARCH & DEVELOPMENT
- 2. INTEGRATING EVERY COMPONENT
- 3. DELIVERING IRON THAT PERFORMS
- 4. SUPPORTING PRODUCTS—
  AND PRODUCTIVITY
- 5. LISTENING TO OUR
  CUSTOMERS TO SPUR
  CONTINUOUS IMPROVEMENT

By following this philosophy—for every truck, every time—we ensure that you get what you expect from Caterpillar: the lowest cost per ton of any mining truck in the industry.

A PROVEN APPROACH TO R&D



A WORLD-CLASS TEAM OF ENGINEERS AND EXPERTS



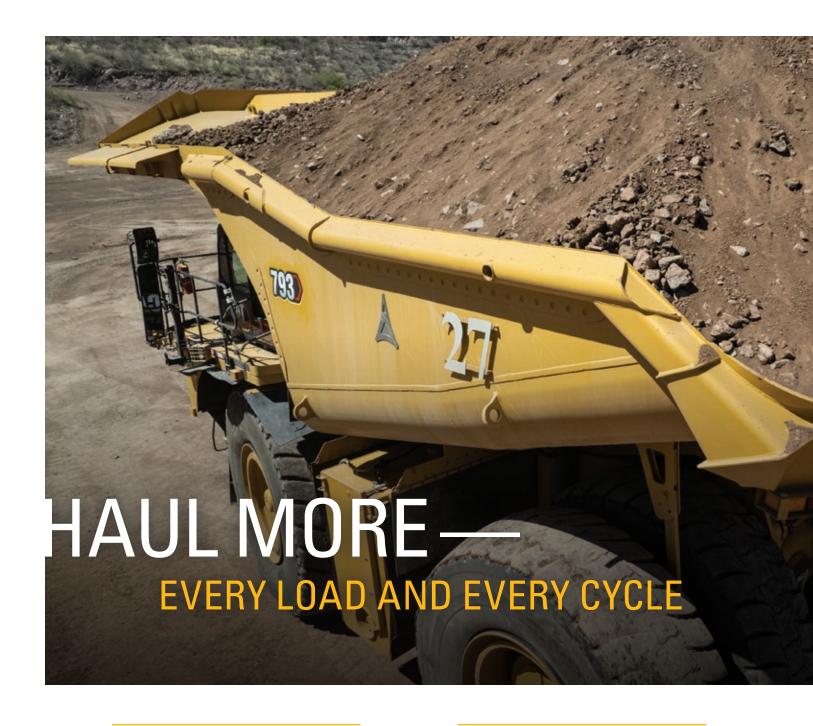
A DISCIPLINED APPROACH TO DEVELOPMENT



MINING INDUSTRY FEEDBACK



TESTING AND VALIDATION OF EVERY MACHINE



#### **OPTIMIZED PAYLOAD**

An empty weight advantage of 13-19 tonnes (14-21 tons) over competitive electric drive trucks in its size class ensures you're getting the full payload you expect. The lower the empty machine weight, the higher your payload — up to 6% more in some cases. And when you choose the High Performance (HP) Body option, you'll reduce weight an additional 2.0-5.0 tonnes (2.2-5.5 tons).

#### **FASTER SPEEDS**

The 793 is faster than competitive trucks and delivers optimal speed on steep grades, poor underfoot conditions and haul roads with high rolling resistance. Its C175-16 diesel engine's 16-cylinder, four-stroke design uses long, effective power strokes for optimum efficiency. The APECS transmission and advanced automatic retarding control (ARC) remove the need for the operator to select gears.



#### **OPTIMUM POWER**

The Cat six-speed transmission, with the latest APECS controls, is paired with the C175-16 engine to deliver optimum power over a wide range of operating speeds. The lock-up torque converter engages at approximately 8 km/h (5 mph), delivering unsurpassed stall torque for its size class. Cat final drives work as a system with the upper powertrain to deliver maximum power to the ground.

#### **FASTER CYCLES**

In addition to faster speeds than competitive trucks, the 793 reduces cycle times thanks to a number of options and next generation features. Automated functions and controls boost efficiency and shorten the operator learning curve. In addition, the Advanced Power Electronic Control Strategy (APECS) delivers productivity and efficiency improvements that can reduce cycle times. Benefits of APECS vary by application, but most mining applications will see an improvement to the bottom line through:

- + **Shorter cycle times.** More continuous torque and rimpull delivers more power to the ground and makes it possible to use a higher gear on grade for optimal fuel efficiency.
- + Faster acceleration. Forward momentum and torque are maintained through each shift, with optimum gear selection resulting in faster acceleration.
- + **Improved operator comfort.**Operators enjoy a more comfortable ride thanks to smoother transitional shifting and reduced shift jerk levels.
- Reduced haul road maintenance.
   Smoother shifting results in less spillage and less haul road maintenance required.
- + Improved engine and powertrain life. A reduction in torque spikes and fewer variations in engine speed deliver longer engine and powertrain component life.

#### A TRUCK YOU CAN DEPEND ON

The Cat 793 has been a reliable performer on mine sites for decades, and today's 793s are achieving more than ever. The 793 has been improved with longer-life components, extended service intervals and easier maintenance to deliver mechanical availability that is consistently greater than 90%. And today's 793 is built on the durable 240-tonne (266-ton) frame, backed by unprecedented levels of virtual and in-iron validation. More than 1,300 trucks are currently operating with millions of operating hours.

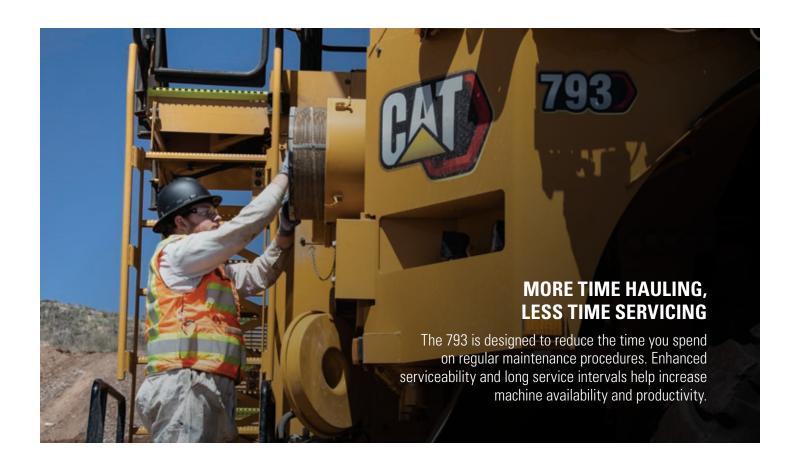
#### STRONG BACKBONE

The 793's mild steel frame provides flexibility, durability and resistance to impact loads. Castings are used in high-stress areas and the integral 4-post ROPS cab provides increased strength for operator protection.

#### **BUILT TO BE REBUILT**

Cat trucks are designed to last over 100,000 hours, and many are going well beyond that. The frame, powertrain, engine and components are built to be rebuilt—using new, remanufactured or rebuilt parts and components—so you can take advantage of multiple lives of like-new performance at a fraction-of-new price.





#### REDUCE YOUR DOWNTIME. REDUCE YOUR COSTS.

We've reduced key contributors to downtime with features like the new modular HVAC (heating, ventilation and air conditioning) system, which improves reliability and consolidates components so the entire system can be removed and replaced quickly. A modular radiator reduces engine removal and installation time and enables rebuilds to be completed off the truck for reduced downtime.

New Remote Flash and Remote Troubleshooting capabilities reduce downtime and optimize machine performance by providing immediate access to the latest software updates and making it possible to troubleshoot the machine remotely or schedule updates when it's most convenient to the operation.

- + Reduces machine downtime due to software by as much as 50%
- Helps ensure that machine faults are repaired as soon as possible — decreasing reporting or data quality issues by 10%
- + Decreases the need to pay technicians' travel and mileages expenses

The next generation of productive hauling delivers significant improvements in serviceability and reliability.

- + Improved service center
- + Grouped ground-level maintenance and checkpoints
- + 1,000-hour hydraulic filters
- + Oil level sight gauges and front wheel sight glass
- + Service platforms on the engine and transmission
- + Easy access to major components for easy servicing and removal
- + 100% airless electric start option, which eliminates air system maintenance from the machine and improves uptime
- + Optional fast fill service center with Live S•0•S<sup>SM</sup> Service Center and brake wear indicators
- + AutoLube system that automatically lubricates necessary components on a regular basis
- + Sealed electrical connectors

#### **IMPROVED CAB**

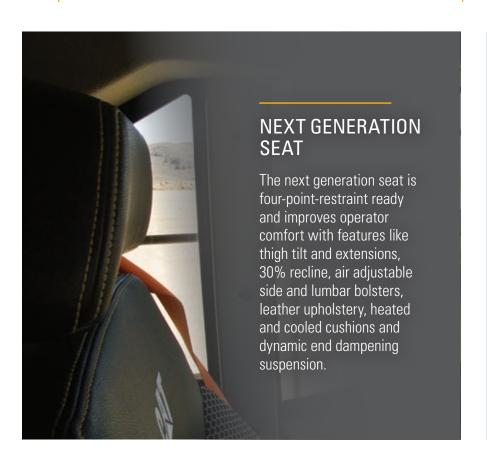
The 793 cab is spacious and more ergonomic, with controls, levers and switches positioned for ease of use. It's also quieter and offers automated temperature control and cab filtration for a safer and more comfortable environment. A walkthrough cab with fully adjustable center console, easy-to-adjust seat and increased leg room make the cab ideal for operators of all sizes.

The cab can be equipped with High Efficiency Particulate Air (HEPA) filters to cut respirable dust penetration by 96% — reducing operator exposure to potentially hazardous substances such as asbestos and coal dust. The system delivers sustainable positive airflow into the HVAC, enabling cabin pressurization at a stabilized level that is less noticeable to the operator.



## DESIGNED BY OPERATORS FOR OPERATORS

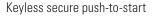
The next generation cab is equipped with features that increase comfort and improve efficiency.



34% MORE OPERATOR SPACE

17% increase in cab width11% more leg room19% more shoulder room

versus D series cab



USB charging ports

12V PTS

10-inch digital gauge cluster

Pass-through egress

Next Gen operator seat

Improved storage space with storage bin

Custom accessory mounting



10-inch touchscreen display

Cup holders

Auto Hoist Control

Rotary dial (for machine speed control)

Fully suspended Next Gen trainer seat

Fully adjustable center console

## ADVANCED SCREENS Machine data, controls and guidance information and other Cat applications such as Cat MineStar<sup>TI</sup>

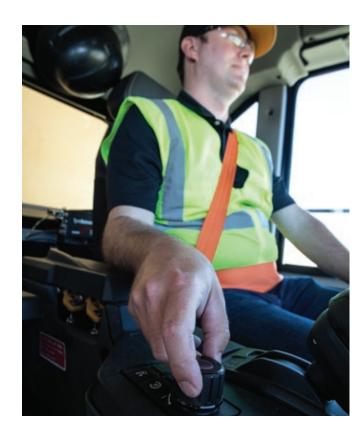
and other Cat applications such as Cat MineStar<sup>TM</sup> are consolidated onto two 10-inch screens to reduce the number of displays required and present the right information when needed. The screens are ideally located to enable the operator's eyes to remain forward as much as possible, reducing fatigue and improving safety. The gauge cluster is non-touchscreen while the secondary screen containing machine information is a touchscreen display. The displays provide a simple, consistent and intuitive user interface for operators across all global regions and across various Caterpillar applications.



#### PRODUCTIVITY-BOOSTING CAB

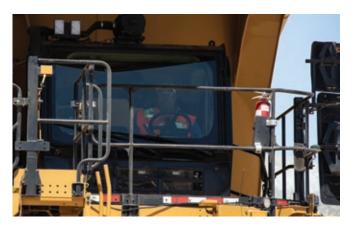
The next generation of productive hauling starts with the operator, who sits in a state-of-the-art environment designed for efficiency and equipped with features that automate functions. We've made the operator experience easier, safer, more consistent and more predictable. We've increased efficiency through automation, improved access to information and reduced fatigue.

- + Operator identification provides seamless integration of operator preference. Custom settings defined by the operator are stored and restored to the saved settings upon log-in.
- + The optional Auto Hoist feature automatically raises the body and controls engine speed, simplifying operation and minimizing cycle times and cycle time variations across various operators. This feature is integrated with the transmission control, requiring less hand movement, reducing fatigue and enabling easier operation.
- + Operator speed coaching gives operators real-time feedback on how to operate the truck to maximize its productivity. This feature indicates the machine capability for both propulsion and retarding based on payload, grade, operating conditions and machine performance history.
- + The payload monitoring system comes with more accurate measurements, improved monitoring and an improved interface.
- + Advanced speed controls allow the operator to quickly and easily set a desired machine speed and control it on-the-fly using the rotary dial, reducing fatigue and reducing brake damage. The machine automatically controls the fuel or applies brakes to maintain the target speed without further operator pedal input. The powertrain will select the appropriate gear and engine speed to optimize performance and efficiency.
- + With enhanced Automatic Retarder Control (ARC), the truck sets a retarding speed based on grade, payload and brake oil temperature by automatically sensing the grade and measuring the payload to determine the performance level of retarding. This feature allows operators to run 3 to 6% higher speeds on average during retarding.



#### A PRODUCTIVITY-ENHANCING OPERATOR ENVIRONMENT









#### CONFIDENCE-BUILDING CONTROLS

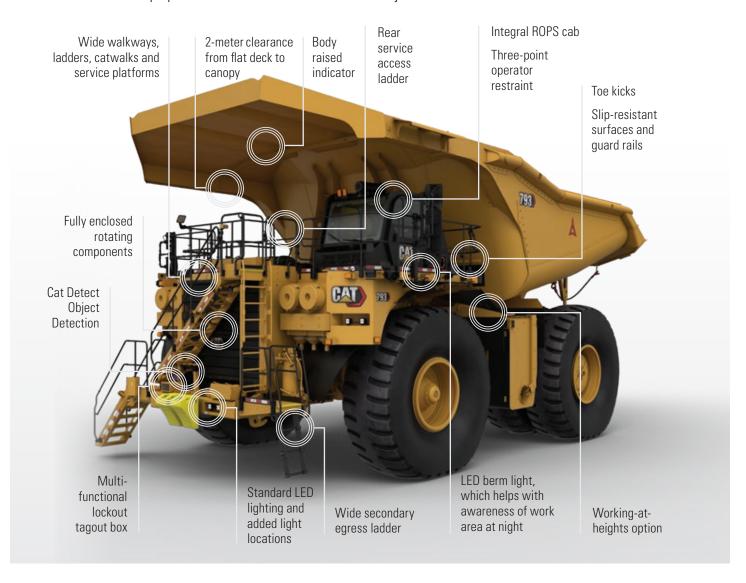
A confident operator is a productive operator, so we equipped the 793 cab with features that boost safety and confidence. We've improved machine responsiveness and controllability while improving cycle times and reducing operator fatigue with features such as:

- + Hill Start Assist with Anti-Rollback
  - + Hill Start uses physical grade and payload to determine the rimpull needed to keep the truck stationary and simplifies operation to move the truck in selected direction.
  - + Anti-Rollback stops the machine with automatic brake application when it is rolling in the opposite direction of the selected gear.
- + Enhanced Traction Control, which uses individual wheel speeds, grade and machine acceleration to determine targeted rear-wheel speeds, increasing traction control responsiveness.
- + Dynamic Stability Control (DSC), which monitors the operator steering intention and actual machine motion and modulates brakes to keep the machine tracking with the operator's steering inputs.
- + Anti-lock Brake System (ABS), which helps the operator maintain the desired path of travel during braking in a sliding condition.
- + Machine Speed Limiting and Cruise Control
- + 2nd Gear Start, a configurable feature that monitors grade and payload to determine if the machine can automatically start in second gear instead of first, which reduces shifts and uses less fuel.

A 360 Surround View camera increases visibility to make it easier to operate the machine safely. The system also includes 4-camera standard views and gives operator greater visibility to the ground around the truck to improve awareness. In addition, the standard Cat MineStar Detect Object Detection system combines radar and camera systems to warn operators about light vehicles or stationary hazards within the immediate vicinity of their machines. It gives operators a complete picture of other machines, hazardous conditions and personnel around the machine — without the need for tagging.

#### **SAFETY-INFUSED**

From slip-resistant surfaces and guard rails to state-of-the-art collision avoidance technologies, the Cat 793 is infused with features to help operators feel safe and confident on the job.

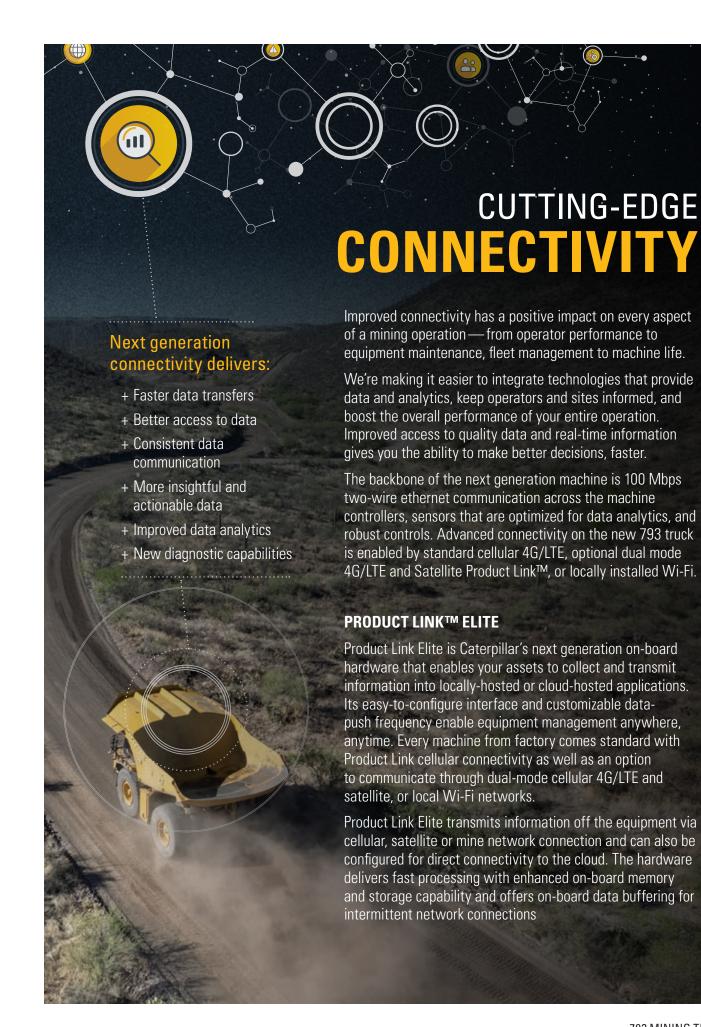


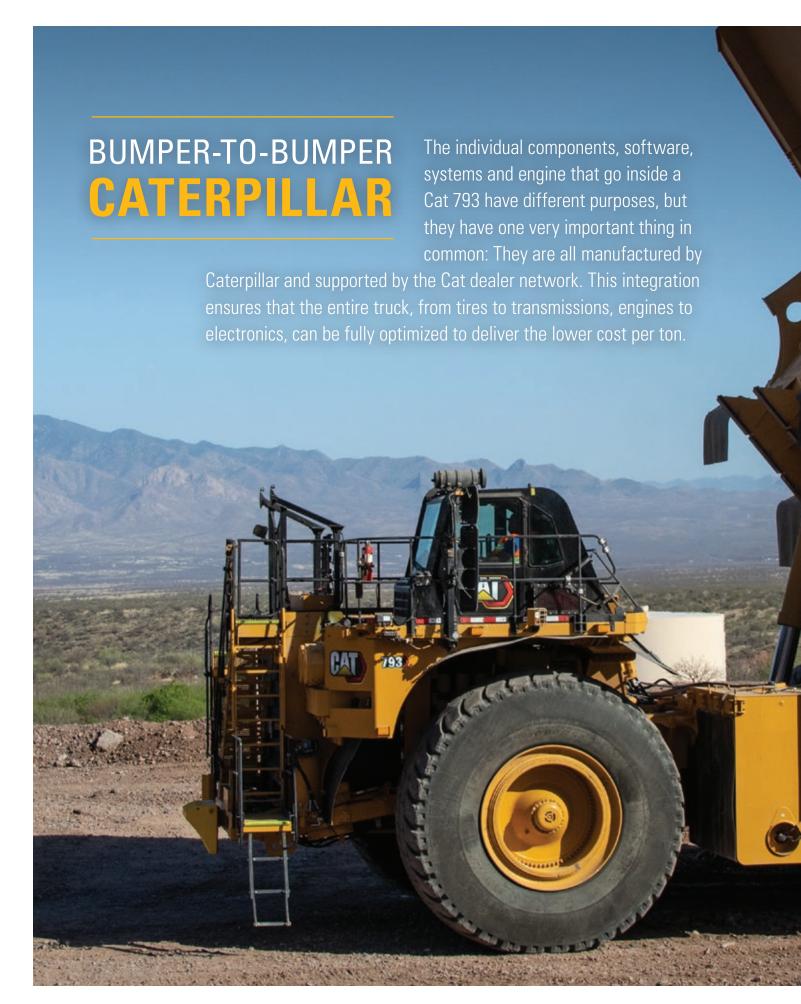
# The 793 features Caterpillar's patented oil-cooled, multiple disc brakes — the most respected and trusted in the industry. They provide immediate, fade-resistant braking and retarding, for increased operator confidence. The 793 has a true four-corner braking and retarding system proven in thousands of Cat mining trucks under every conceivable condition. With retarding power applied to all four corners, the full weight of the truck can

be applied for traction, resulting in maximum productivity even in poor underfoot conditions. The Caterpillar braking system delivers anti-lock braking and dynamic stability control.

100% OF WEIGHT

SUPERIOR BRAKING







#### **BODY OPTIONS**

The 793 has the widest variety of body options compared to all other models and operates in the widest variety of applications globally.

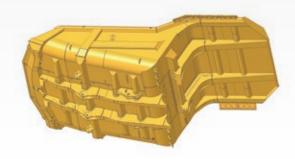


# **OVER 3,400 793 BODIES SOLD** —SINCE 2008—

#### **HIGH PERFORMANCE (HP) BODY**

The HP body features a lightweight, simplified and durable design that provides complete front machine coverage and extended overhead protection.

The HP body features robust top rail geometry with internal stiffeners and a high-visibility load placement indicator. Patented floating bolsters and spring plates improve overall durability by avoiding welds in high-stress areas. In addition, the body requires only minimal liner coverage due to thicker and harder base plates. Curved front/side transitions minimize carryback.



#### TRADITIONAL BODY OPTIONS

In addition to the MP and HP body, the 793 can be configured with our traditional body options, which are also specifically designed to work with the Cat frame for superior structural performance. Bodies can also be customized with options like tail extensions, sideboards and application-specific liners, which help to maintain rated payload, reduce spillage and improve hauling efficiencies.

#### COAL BODY





OPTIMIZE YOUR ENTIRE OPERATION

Optional offerings improve the overall safety, efficiency and productivity of your operation:

- + Fleet Management
- + Object Detection
- + Driver Safety System
- + Proximity Awareness
- + Equipment Care Advisor
- + Health Equipment Insights
- + Health Office
- + Command

#### **GAIN AN EDGE**

WITH CAT MINESTAR™











DETECT

Whether you want to address a single challenge or make step changes in the overall safety, efficiency and productivity of your operation, Cat MineStar has a solution for you. Fleet management, guidance technologies and machine health applications allow significant improvements in your operations and maintenance organizations.

You also have the ability to further optimize your operation with Cat MineStar safety technologies and automation technologies, including fully autonomous hauling—a safety and productivity game-changer.

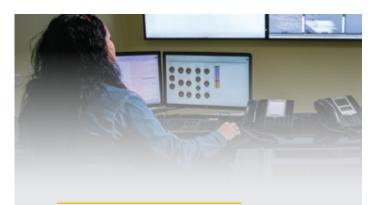
### MANAGING AND MITIGATING FATIGUE

Fatigued and distracted machine operators are present on every mine site every day — and the consequences can be costly, even fatal. The Cat Driver Safety System (DSS) is a non-intrusive, in-cab detection system that can help you identify fatigue and distraction — and address it — in real time. The 793 leaves the factory ready for the DSS, which also includes an option to send events to a 24-hour monitoring center.

#### INCREASING VISIBILITY AND AWARENESS

Increasing visibility is your first line of defense when it comes to safety. That's why we've made MineStar Detect Object Detection a standard offering on the 793. This system combines radar and camera systems to warn operators about light vehicles or stationary hazards within the immediate vicinity of their machines during the most critical times: startup, initial movement and reverse.

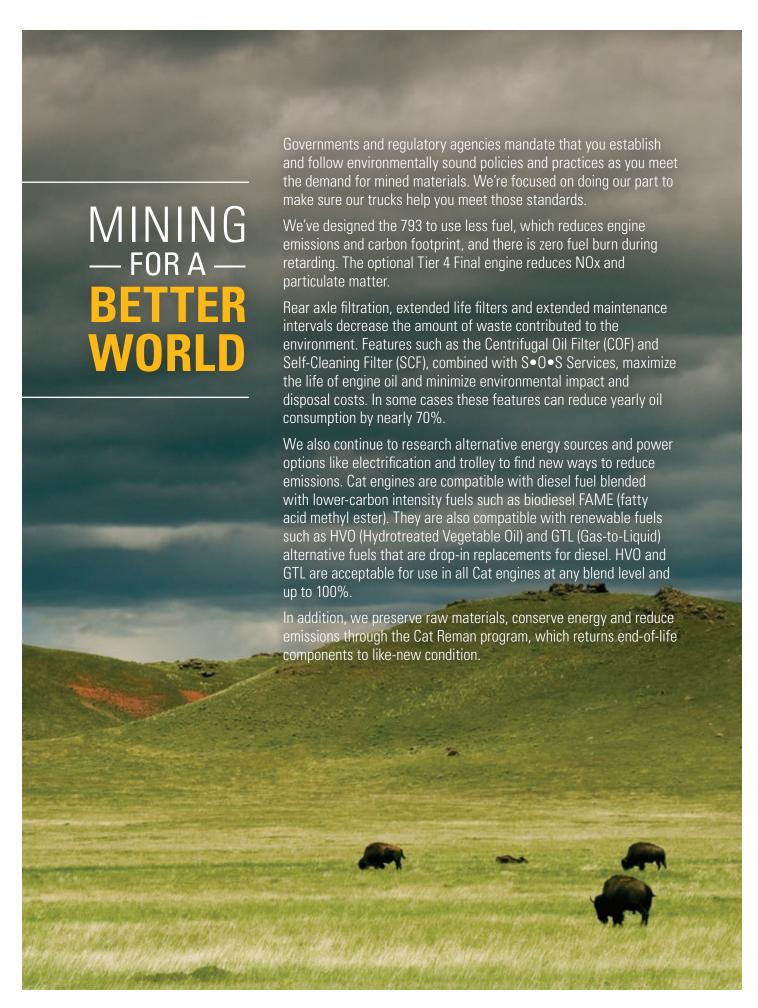
An additional Detect offering, Proximity Awareness, uses the latest in peer-to-peer communications to deliver fast and reliable information-sharing between machines and alerts operators of imminent proximity incidents.

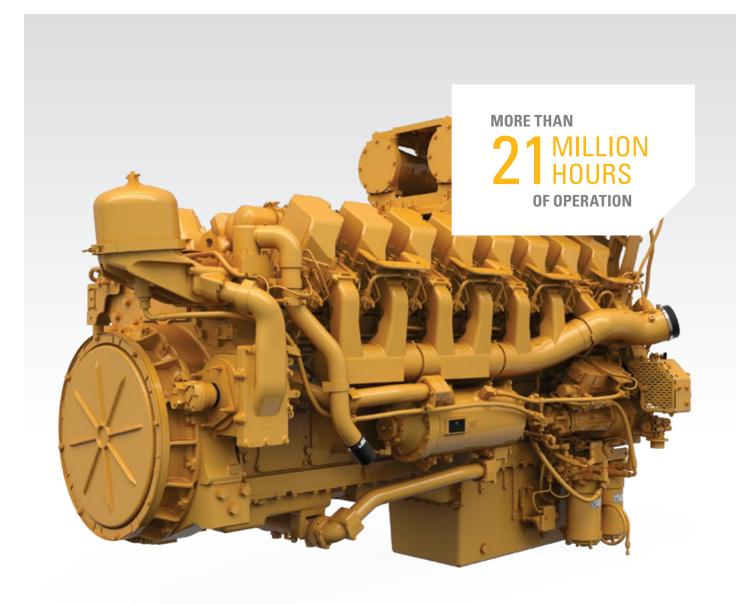


#### IMPLEMENTING AUTONOMOUS HAULAGE

MineStar Command for hauling, an autonomous hauling solution, is a fully integrated factory offering on the 793. Command enables near-continuous utilization and has proven to increase productivity by up to 30%.

Operators are completely removed from the environment for significant improvements in site safety. Hundreds of autonomous 793s are currently in service.





#### MORE POWER, LOWER COSTS

The 793 is powered by the proven C175-16 engine. This engine has more than 21 million hours of operation and in the 793 is capable of burning over 1 million gallons (3.8 million liters) of fuel before overhaul. The C175 reduces fuel consumption while increasing horsepower. Engine power is adjustable to adapt to changes in production targets and to work smoothly in mixed fleets.

The engine contributes to overall lower operating and maintenance costs thanks to:

- + High displacement, low rpm rating and conservative horsepower ratings, which mean more time on the haul roads and less time in the shop.
- + The Cat Common Rail Fuel System provides optimal fuel delivery, which reduces both fuel consumption and emissions output.
- + The new Cat Enhanced Engine Oil Filtration System increases engine life, eliminates cartridge filter changes and makes it possible to extend oil change intervals



#### IN YOUR PERFORMANCE

Our commitment to your success doesn't end when your Cat 793 begins hauling overburden or ore. We immediately start looking for ways to make that truck work more efficiently, safely and productively. From addressing performance issues, to training operators and technicians, to calibrating onboard technologies—our support of your truck productivity is ongoing.

Caterpillar and Cat dealer personnel will partner with you on site to improve the performance not only of your trucks but of your overall loading and

hauling operation. You'll have access to parts and service, and technicians who are focused on helping you optimize repairs to keep machines in the field rather than the maintenance shop. And we help with training to ensure your operators have the skills and knowledge they need to work as efficiently and productively as possible.

Together with our Cat dealer network, we customize service offerings to provide a maintenance solution that fits your operation — whether you want to perform the majority of service yourself, or you're looking for an on-site partner to manage your maintenance organization. We're also consultants who can help you make smart decisions about buying, operating, maintaining, repairing, rebuilding and replacing equipment.

#### SITE-LEVEL SOLUTIONS

We're committed to supporting more than your equipment. We work together to find ways to help you optimize your entire operation. We'll work alongside you to help you improve site productivity and machine availability while lowering cost per ton. We have teams of people with decades of experience working in the industry. They have hands-on knowledge of mining machines and applications, site operations and equipment maintenance and repair, mining technologies, safety solutions, fleet management — and more

- + Mining Performance Solutions Customizable, consultative engagements to help your mine drive predictability, improve productivity, manage costs and make data actionable to unlock sustainable gains.
- + Job Site Solutions Fleet Management Services Fleet management solutions that make costs manageable, increase uptime and improve productivity
- + Caterpillar Safety Services Guiding you along your safety journey by providing industry best practices, continuous improvement processes and the latest technologies to see, mitigate and manage risks.

#### CAT CUSTOMER VALUE AGREEMENTS (CVAS)

Cat Customer Value Agreements (CVAs) for mining help you maximize equipment health, keep your fleet moving and get the most from your investment. With built-in cost controls and a range of guarantees, your dealer can tailor these plans to suit your mine site's needs and bring top results to your business. Your Cat dealer can offer you options for planned maintenance, components and powertrain—all with the flexibility to be shaped for your operation.

- + Hassle-Free Ownership. CVAs bring together dealer advice, easy parts acquisition, plus options for flexible payment terms.
- + Hassle-Free Maintenance. Getting the right Genuine Cat Parts delivered to the right place at the right time makes it easier for maintenance to get done. Service options are flexible to meet vour needs.
- + Security of Expert Dealer Support. Cat CVAs are customized plans that offer troubleshooting, diagnostics and repairs with Genuine Cat Parts. If you need trained technician assistance, there are options for that, too.
- + Peace of Mind from Equipment Health Management. You get easy access to monitoring tools with a Cat CVA. Digital tools give you the ability to access important operating parameters for your business anywhere you have an internet connection.

# **YOUR PARTNER**

No one knows more about how to get the most from a piece of Cat equipment than your local Cat dealer. This one-ofa-kind, on-the-ground support network delivers expert service, integrated solutions, aftersales support, fast and efficient parts fulfilment, world-class rebuild and remanufacturing capabilities, and more.

Cat dealers operate as nearly 200 local businesses — each one fully embedded in and committed to the geographic area it serves. That means you work with people you know, who know your business, and who respond on your timeframe.



#### BETTER LOADING BETTER HAULING

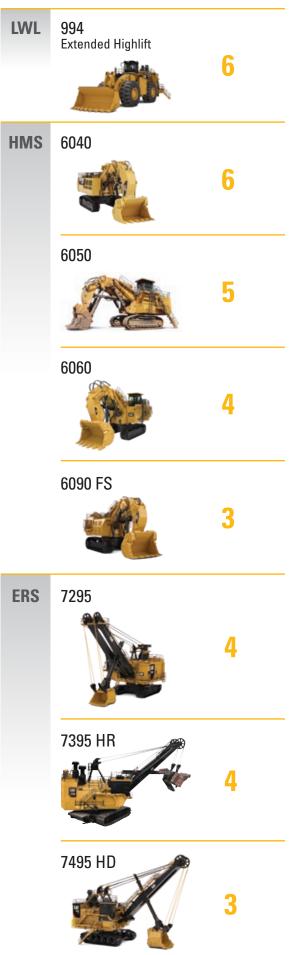
#### BETTER BOTTOM LINE

With a truck for every site or application—no matter the size class or drive system—and a broad lineup of loading tools, Caterpillar delivers a complete loading and hauling solution that delivers the lowest cost per ton.

Trucks and loaders are ideally matched to optimize the loading and hauling cycle. Whether you choose a Cat electric rope shovel, hydraulic mining shovel or large wheel loader, or a mechanical drive or electric drive Cat truck, you'll find they all have one thing in common: They're Caterpillar, inside and out. From iron to engines, hydraulics to electronics, software to hardware, transmissions to ground engaging tools — systems are fully integrated and work together to deliver optimized performance and a better bottom line.







#### **TECHNICAL SPECIFICATIONS**

See cat.com for complete specifications.

	ENGINE	
Engine Model	Cat® C175-16	
Gross Power - SAE J1995:2014	1976 kW	2,650 hp
Net Power - SAE J1349:2011	1886 kW	2,529 hp
Rated Speed	1,750 rpm	
Emissions Rating	Fuel Optimized	
Bore	175 mm	6.9 in
Stroke	220 mm	8.7 in
Displacement	85 L	5,187 in <sup>3</sup>

- Net Power advertised is the power available at the flywheel when the engine is equipped with air intake system, exhaust system, and alternator.
- + U.S. EPA Tier 4 Final / EU Stage V available for applicable markets.

WEIGHTS – APPROXI	MATE	
Rated Gross Machine Weight (RGMW)		
Standard Wheel Stations	386 008 kg	851,000 lb
Extended Life Wheel Stations	404 000 kg	890,668 lb
Chassis Weight (CW)		
Standard Wheel Stations	126 410 kg	278,863 lb
Extended Life Wheel Stations	133 854 kg	295,098 lb
Body Weight (BW)	30 151 kg	66,471 lb
Nominal Rated Payload (NRP)		
Standard Wheel Stations	229 tonnes	252 tons
Extended Life Wheel Stations	240 tonnes	265 tons
+ Consult your tire manufacturer for maximum tire load		

WEIGHT DISTRIBUTIONS – APPROXIMATE		
Front Axle – Empty	51%	
Rear Axle – Empty	49%	
Front Axle – Loaded	33%	
Rear Axle – Loaded 67%		
+ Weight distributions optimized with Cat body.		

+ Chassis weight with full fuel and fluids, standard & mandatory

attachments, hoist, body mounting group, rims, and tires.

FINAL D	RIVES	
Double reduction, planetary with full floating axles.		
Differential Ratio	1.8:1	
Planetary Ratio	16:1	
Total Reduction Ratio	28.8	

	TRANSMISSION	
Forward 1	12.1 km/h	7.5 mph
Forward 2	16.4 km/h	10.2 mph
Forward 3	22.4 km/h	13.9 mph
Forward 4	30.3 km/h	18.8 mph
Forward 5	41.0 km/h	25.5 mph
Forward 6	59.9 km/h	37 mph
Reverse	11.2 km/h	7 mph
Top Speed – Loaded	59.9 km/h	37 mph

**TIRES & RIMS** 

40.00 R57

46/90 R57 50/80 R57

Parking Brake:

737 mm (29 in) Standard rims, 813 mm (32 in) Optional rims		
<ul> <li>+ Quick Change Rims optional.</li> <li>+ Extended life wheel stations optional.</li> <li>+ Caterpillar recommends the customer evaluate all job conditions and consult tire manufacturer for proper tire selection and TKPH (TMPH) capabilities.</li> </ul>		
BRAKING SYSTEM		
Service Brakes: Four-Corner, Wet Disc, Oil Cooled, Hydraulically Actuated		
Front Wet Disc Brake Surface Area	89 727 cm <sup>2</sup>	13,907 in <sup>2</sup>
Rear Wet Disc Brake Surface Area	134 590 cm <sup>2</sup>	20,861 in <sup>2</sup>
Standards (Service and Secondary)	ISO 3450:2011	

Four-corner, Multi-disk, Spring applied, Hydraulically Released

CAPACITY – HP BODY	- 100% FILL FACTOR	
Struck	112.6-151 m³ 147-197.5 yd³	
Heaped (SAE 2:1)	162-190 m³ 212-249 yd²	
+ Consult your local Cat dealer for body recommendations.		

BODY HOISTS			
Twin, two-stage hydraulic cylinders with snubbing valve			
Pump Flow – High Idle 819 L/min 216 gal/mir			
Relief Valve Setting – Raise	20 370 kPa	2,955 psi	
Body Raise Time – High Idle	22 Seconds		
Body Lower Time – Float	23 Seconds		
Body Power Down – High Idle	20.7 Seconds		

SUSPENSI	ON	
Self-contained nitrogen/oil cylinders, pi double shear clevis attachments	n-to-pin mounting, top	o & bottom
Effective Cylinder Stroke – Front	317 mm	12.48 in
Effective Cylinder Stroke – Rear	165 mm	6.50 in
Rear Axle Oscillation	+/- 4.9 degrees	

SERVICE REFILL CAPACITIE	S	
Fuel Tank	2839 L	750 gal
Fuel Tank (Optional)	4922 L	1,300 gal
Diesel Exhaust Fluid (DEF) Tank	235 L	62 gal
Cooling System	1074 L	284 gal
Crankcase	312 L	82 gal
Front Wheels, Each	30 L	8 gal
Differential & Final Drives	984 L	260 gal
Steering System (Includes Tank)	290 L	77 gal
Brake/Hoist System (Includes Tank)	1315 L	347 gal
Torque Converter Sump	102 L	27 gal
Torque Converter/Transmission System (Includes Sump)	209 L	55 gal

САВ		
Air Conditioning (HFC - 134A refrigerant)	9.3 kW	31,733 BTU/hr
Heater / Defroster	10.7 kW	36,510 BTU/hr

- $+\,$  Ambient capabilities down to -30C (-22F) for heater/defroster and up to 50C (122F) for air conditioning.
- $+\;$  The operator sound pressure level, 74 dB(A), complies with ISO 6394 and ISO 6396.
- + ROPS (Rollover Protective Structure) meets ISO 3471:2008 for Operator and ISO 13459:2012 for Trainer
- + FOPS (Falling Objects Protective Structure) meets ISO 3449:2005 Level II for Operator and ISO 13459:2012 Level II for Trainer

STEERING		
Steer Angle	36 degrees	
Turning Diameter (ISO 7457:1997)	28 m	93 ft
Steering Standards	ISO 5010:2019	



# LARGE MINING TRUCK

For more complete information on Cat products, dealer services and industry solutions, visit us at www.cat.com Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

© 2022 Caterpillar. All Rights Reserved. CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Corporate Yellow", the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

AEHQ8437

