# 789 (04)
## MINING TRUCK




| | |
|---|---|
| **Engine:** | 3516C / 3516B |
| **Gross Power:** | 1 566 kW (2,100 hp) / 1 417 kW (1,900 hp) |
| **Gross Weight:** | 324 319 kg / 715,000 lb |
| **Nominal Rated Payload:** | 194 tonnes (214 tons) / 191 tonnes (211 tons) |

CAT®



CAT® MINING TRUCKS

# DELIVERING A BETTER BOTTOM LINE

With a truck for every site or application—no matter the size class or drive system—and a complete lineup of loading tools, Caterpillar delivers a complete loading and hauling solution that delivers a better bottom line.




## WHAT CAN YOU EXPECT FROM YOUR CAT MINING TRUCKS?

## THE LOWEST POSSIBLE COST PER TON OVER THE LIFE OF THE MACHINE.

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 resistive braking 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.

## WHAT WILL IT TAKE TO BOOST YOUR BOTTOM LINE?

A truck with a tradition of proven performance in a wide variety of applications? A truck with the lower cost per ton in its size class, for an overall reduction in your operating costs? The reliability and reduced costs that come with long life – from the engine and powertrain to the components, brakes, and frame?

With the Cat 789, you get all of this – and more. Like faster speed on grade and a high production capability thanks to a payload advantage over the competition. Engine options to meet regulatory requirements or application-specific needs such as extreme temperatures, high altitude, or areas that require sound reductions. And safety enhancements like diagonal stairways, wide walkways, and optional powered access. The 789 offers the lowest cost per ton in its size class and high reliability – reducing overall costs and delivering a better bottom line to the most important mine in the world: yours.

# CAT® 789 (04)

PROVEN PERFORMANCE.
LOW OPERATING COSTS.
LONG LIFE.






# SETTING THE BAR

IN ITS SIZE CLASS

## **10-15%** COST PER TON ADVANTAGE OVER COMPETITION (DEPENDING ON APPLICATION)

## VERSATILITY

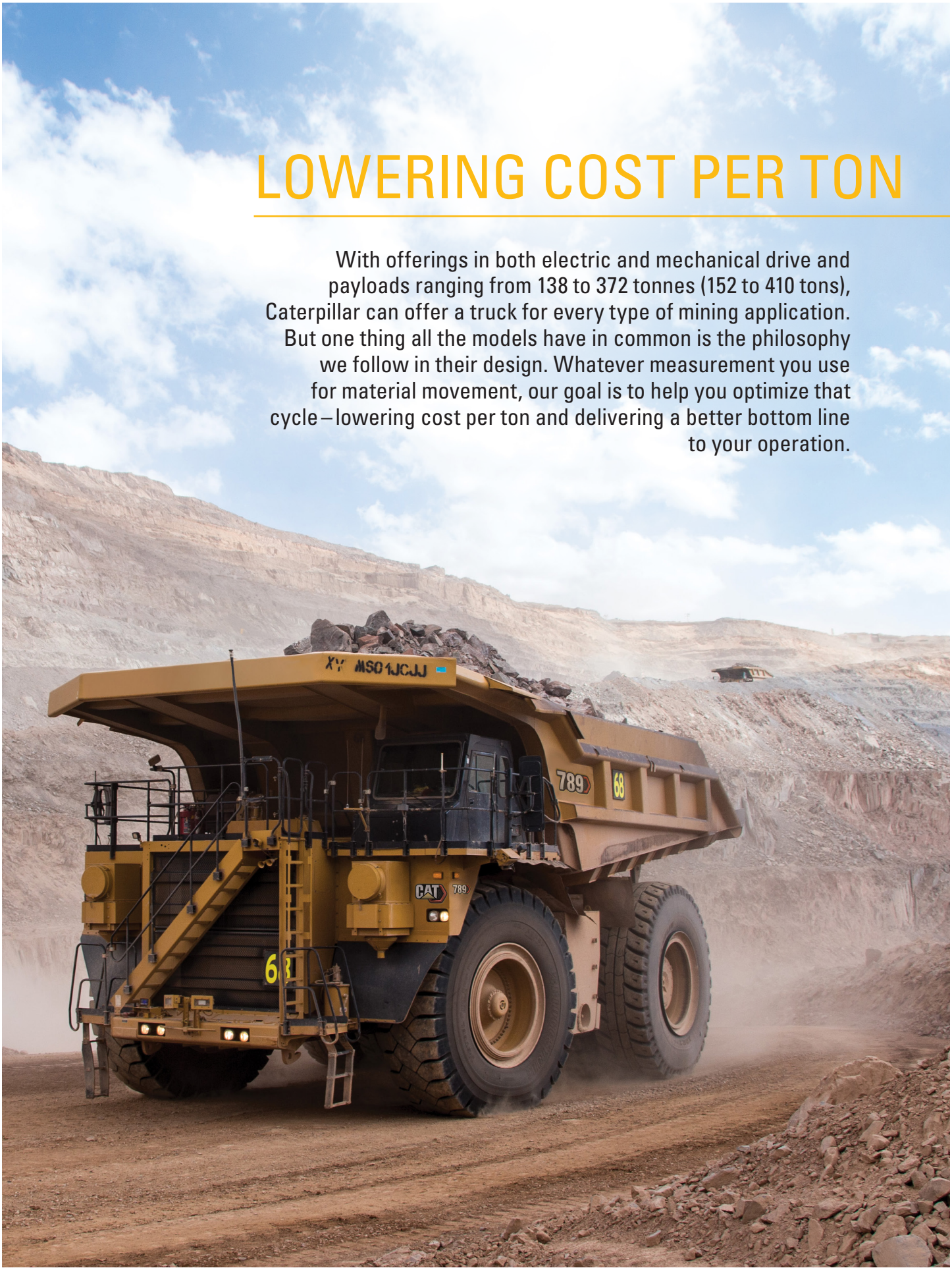
+ Options: Engines, tires
+ Application-specific capabilities: extreme ambient, high altitude, extra quiet

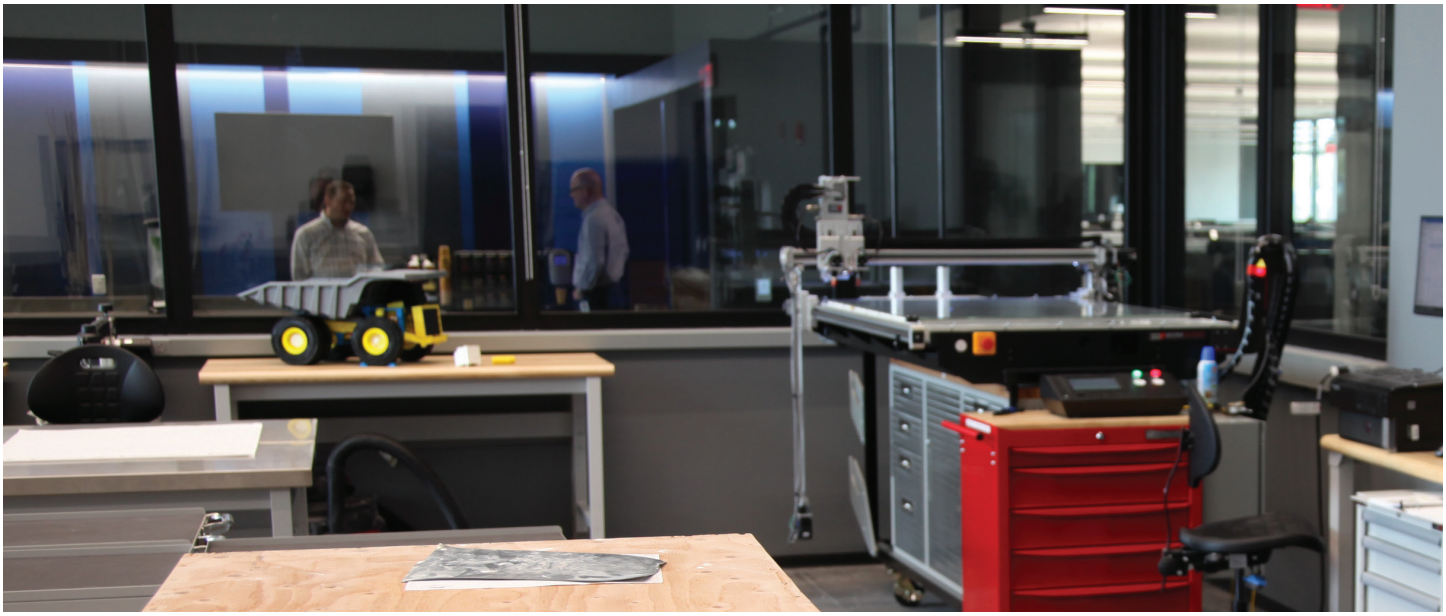
## PROVEN

+ Most popular 191-tonne (210-ton) truck in the mining industry
+ 80% of the industry
+ Delivering results for decades
+ Easy to operate and maintain

# LOWERING COST PER TON

With offerings in both electric and mechanical drive and payloads ranging from 138 to 372 tonnes (152 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 and delivering a better bottom line to your operation.





## A PROVEN DESIGN PHILOSOPHY

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

1. MAKING A SUSTAINED INVESTMENT IN RESEARCH AND 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: low cost per ton and high availability.

## 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



# HAUL MORE – EVERY LOAD AND EVERY CYCLE

## OPTIMIZED PAYLOAD

Contradicting a common belief that bigger is better, the 789 has a weight advantage over larger trucks so you can haul more with every load. The 789 also delivers a 10-15% cost per ton advantage over competitive trucks, depending on application.

## PROVEN PERFORMANCE

The 789 is the most popular 191-tonne (210-ton) truck in the mining industry – and for good reason. The 789 is a tried and true performer that has been delivering results on mine sites around the world for decades. Developed specifically for high production mining applications, the 789 simply does its job, no matter the application or conditions.

## FAST SPEEDS

The 789 delivers a faster speed on grade than competitive trucks, reducing cycle times and lowering overall costs. The 3500 series engines are 16-cylinder, four-stroke designs that use long, effective power strokes for more complete fuel combustion and optimum efficiency. The 23% net torque rise provides unequaled lugging force during acceleration, on steep grades, and in rough underfoot conditions. Torque rise effectively matches transmission shift points for high efficiency and fast cycle times. And expanded tire options allow mines to take advantage of higher speeds, particularly in flat long-haul high-speed applications.

## WHAT IF YOU COULD TRAVEL FASTER – EVEN IN TOUGH CONDITIONS?

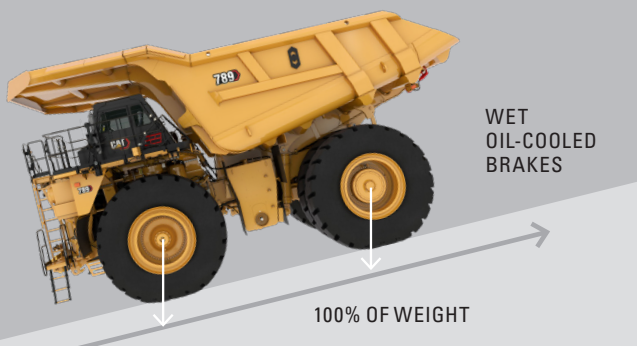




# CONFIDENT OPERATORS ARE PRODUCTIVE OPERATORS

## SUPERIOR BRAKING

The 789 features Caterpillar's patented oil-cooled, multiple disc brakes – highly respected and trusted in the industry. They provide immediate, fade-resistant braking for increased operator confidence. The 789 has a true four-corner braking and resistive braking system proven in thousands of Cat mining trucks under every conceivable condition. With resistive braking power applied to all four corners, the full weight of the truck can be applied for traction, resulting in high productivity even in poor underfoot conditions.






## DESIGNED FOR COMFORT

With three cab options, you can equip your 789 with the features you desire. All options offer an ergonomic layout, excellent all-around visibility, and controls, levers, switches, and gauges that are positioned for ease of use. The cab includes dozens of features designed to enhance comfort and reduce fatigue, such as an air suspension seat, reduced vibration, automatic climate control, and sound suppression.

# SAFETY-INFUSED

From slip-resistant surfaces and hand rails to state-of-the-art collision avoidance technologies, the Cat 789 is infused with features to help operators feel safe and confident on the job.



# A TRUCK FOR YOUR APPLICATION

The 789 is one of the most versatile and reliable trucks in its size class. It performs well in every condition and works on mines of every size and type thanks to multiple engine configurations, application-specific capabilities, and tire options.

The 789 is powered by the Cat 3500 series engine, which has proven its ability to deliver high power and reliability in the most demanding mining applications. Two engine options help you meet regulatory requirements or application-specific needs. The mechanical drive powertrain and power shift transmission provide unmatched efficiency and control on steep grades, in poor underfoot conditions, and on haul roads with high rolling resistance.

Application-specific capabilities are available for extreme ambient conditions and high-altitude applications. In addition, larger tire options have been designed into the 789. Applicable hauling conditions will benefit from increased tire life or significant reduction in tire costs.





# MORE TIME HAULING, LESS TIME SERVICING

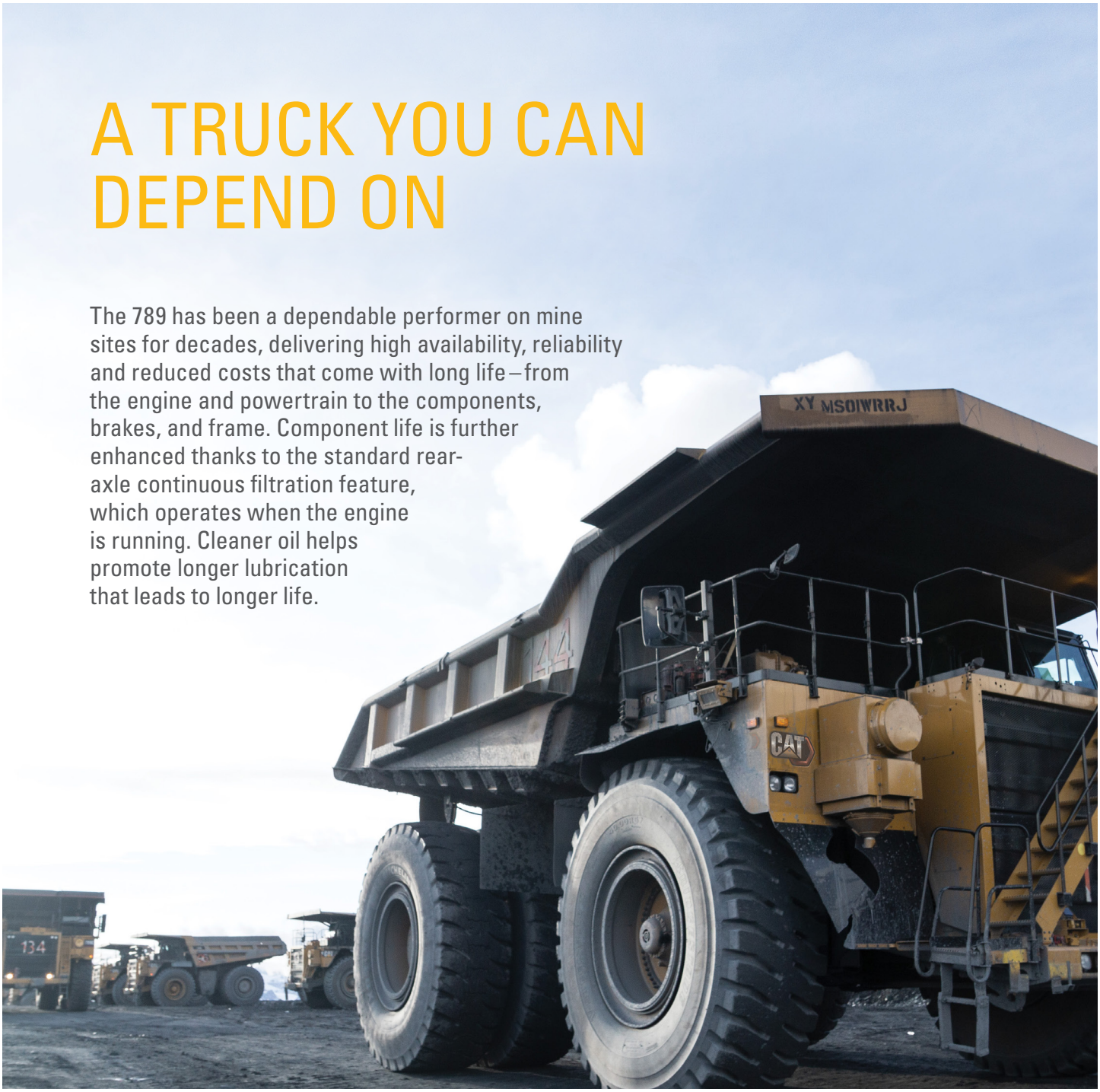
The 789 was designed to reduce the time you spend on regular maintenance procedures. Enhanced serviceability and long service intervals help increase machine availability and productivity.

Features include:

+ 500-hour service intervals
+ Ground-level access to tanks, filters, drains, and engine shutdown
+ Easier access to daily service points as well as major components
+ Maintenance platform with access to engine, steering hydraulic tank, and battery compartment
+ Autolube automatic lubrication system
+ Vital Information Management System (VIMS™) onboard diagnostic systems, which continuously monitor all critical machine functions and components to help locate faults quickly for faster repair
+ Optional fast-fill service center, which enables high-speed fuel and oil exchange
+ Disconnect valves that are conveniently located throughout the hydraulic systems for easy pressure testing
+ Sealed electrical connectors to lock out dust and moisture
+ Individual cylinder heads that are interchangeable for easy removal and visual inspection

# A TRUCK YOU CAN DEPEND ON

The 789 has been a dependable performer on mine sites for decades, delivering high availability, reliability and reduced costs that come with long life—from the engine and powertrain to the components, brakes, and frame. Component life is further enhanced thanks to the standard rear-axle continuous filtration feature, which operates when the engine is running. Cleaner oil helps promote longer lubrication that leads to longer life.




## STRONG BACKBONE

The 789 frame uses a box-section design, incorporating two forgings and 21 castings in high-stress areas with deep penetrating and continuous wrap-around welds to resist damage from twisting loads without adding extra weight. The mild steel frame provides flexibility, durability, and resistance to impact loads. The integral four-post rollover protective structure (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.

## BUMPER-TO-BUMPER
# CATERPILLAR

The individual components, software, systems, and engine that go inside a Cat 789 have different purposes, but they have one very important thing in common: They are all manufactured by Caterpillar and supported by the Cat dealer network. This integration ensures that the entire truck, from tires to transmissions, engines to electronics, can be fully optimized to deliver the lowest cost per ton.




### ENGINE/POWERTRAIN INTEGRATION

This integration electronically combines critical powertrain components to work more intelligently and to optimize overall truck performance.

+ Cat Data Link (CDL) electronically integrates machine computer systems to optimize overall powertrain performance, increase reliability and component life, and reduce operating costs.
+ Electronic Technician service tool provides service technicians with easy access to stored diagnostic data through the Cat Data Link to simplify problem diagnosis and increase machine availability.
+ Integrated braking control integrates Hydraulic Automatic braking control and traction control into one system for optimum performance and efficiency.
+ Body-up reverse neutralizer automatically shifts the transmission to neutral if the hoist lever is activated while transmission is shifted in reverse.
+ Controlled throttle shifting regulates engine rpm during shifting to reduce powertrain stress and clutch wear by controlling engine speed, torque converter lock-up, and transmission clutch engagement for smoother shifts and longer component life.




# GET THE RIGHT BODY FOR THE JOB

Matching the truck body to the application is a critical part of achieving high value from your 789. Caterpillar offers a variety of application-specific body options that yield a payload ranging from 177 to 188 tonnes (195 to 207 tons). The Caterpillar exclusive 10/10/20 payload guidelines help achieve a balance of excellent payload and safe operation.

## HIGH PERFORMANCE BODY

When you equip your 789 with a Cat High Performance (HP) body, you'll experience the benefits of a higher payload thanks to a weight reduction of 2.0-5.0 tonnes (2.2-5.5 tons) or more. 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. 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.




## BODY STYLE OFFERINGS

### HIGH PERFORMANCE BODY

A new lightweight design that provides durability along with a higher payload.

### MINE SPECIFIC BODY (MSD II)

For mature mines with good operational and maintenance practices, the lighter weight MSD II body is available in several sizes. It is a customer/site specific body that is designed to improve performance.

### COMBINATION BODY

This is a multi-purpose, high volume body for light density, well fragmented material. Based on the dual slope design for applications that require a flexible body to haul light ore (such as coal) and light, well fragmented overburden.

### GATELESS COAL BODY

This specialized high-volume body, available in several sizes, is targeted at dedicated coal haulage applications with minimal impact.

### DUAL SLOPE BODY

The original standard body, the Dual Slope body provides excellent load retention, maintains a low center of gravity with optimum load distribution, reduces shock loading, and is available in lined and unlined configurations.

### CUSTOM BODY OPTIONS

A variety of options including tail extensions, sideboards, tumble bars, rock boxes, and rock shedders are available to maintain rated payload, reduce spillage, and improve hauling efficiencies.

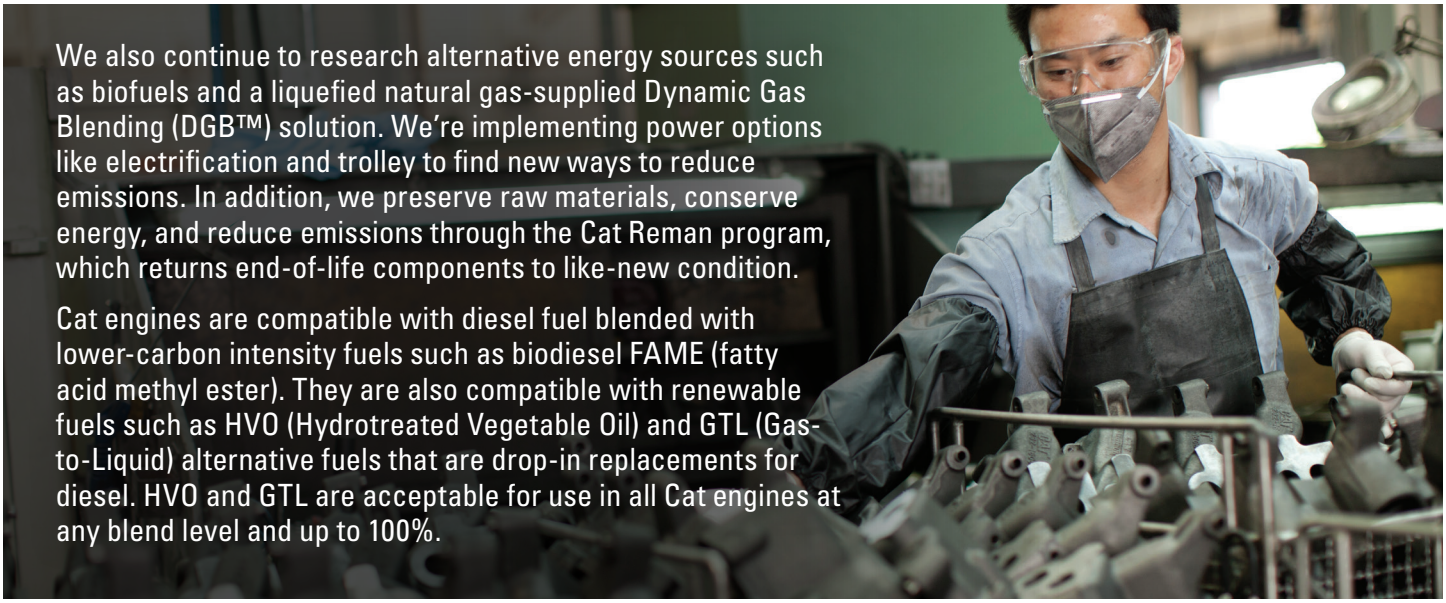
# MINING — FOR A — BETTER WORLD

When it comes to your hauling operation, Caterpillar and Cat dealers are here to help you achieve your climate-related objectives. With many solutions available today – and many more on the horizon – we're committed to working together to find new ways to mine more responsibly and build a better, more sustainable world.

We've designed the 789 with a number of enhancements that lessen its impact on the environment. Features like oil renewal systems and continuous rear axle filtration decrease the amount of waste contributed to the environment.

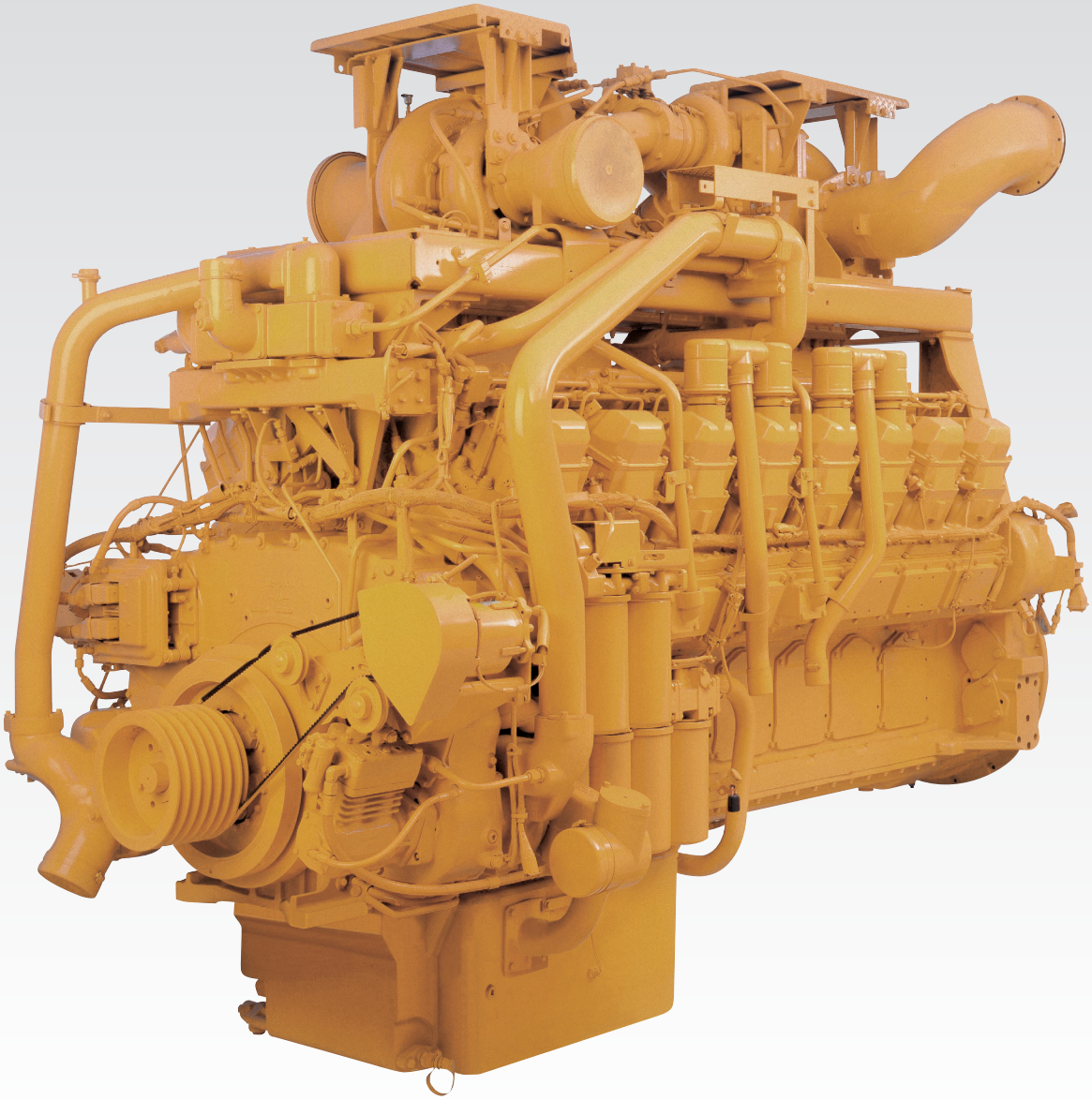
We also continue to research alternative energy sources such as biofuels and a liquefied natural gas-supplied Dynamic Gas Blending (DGB™) solution. We're implementing power options like electrification and trolley to find new ways to reduce emissions. In addition, we preserve raw materials, conserve energy, and reduce emissions through the Cat Reman program, which returns end-of-life components to like-new condition.

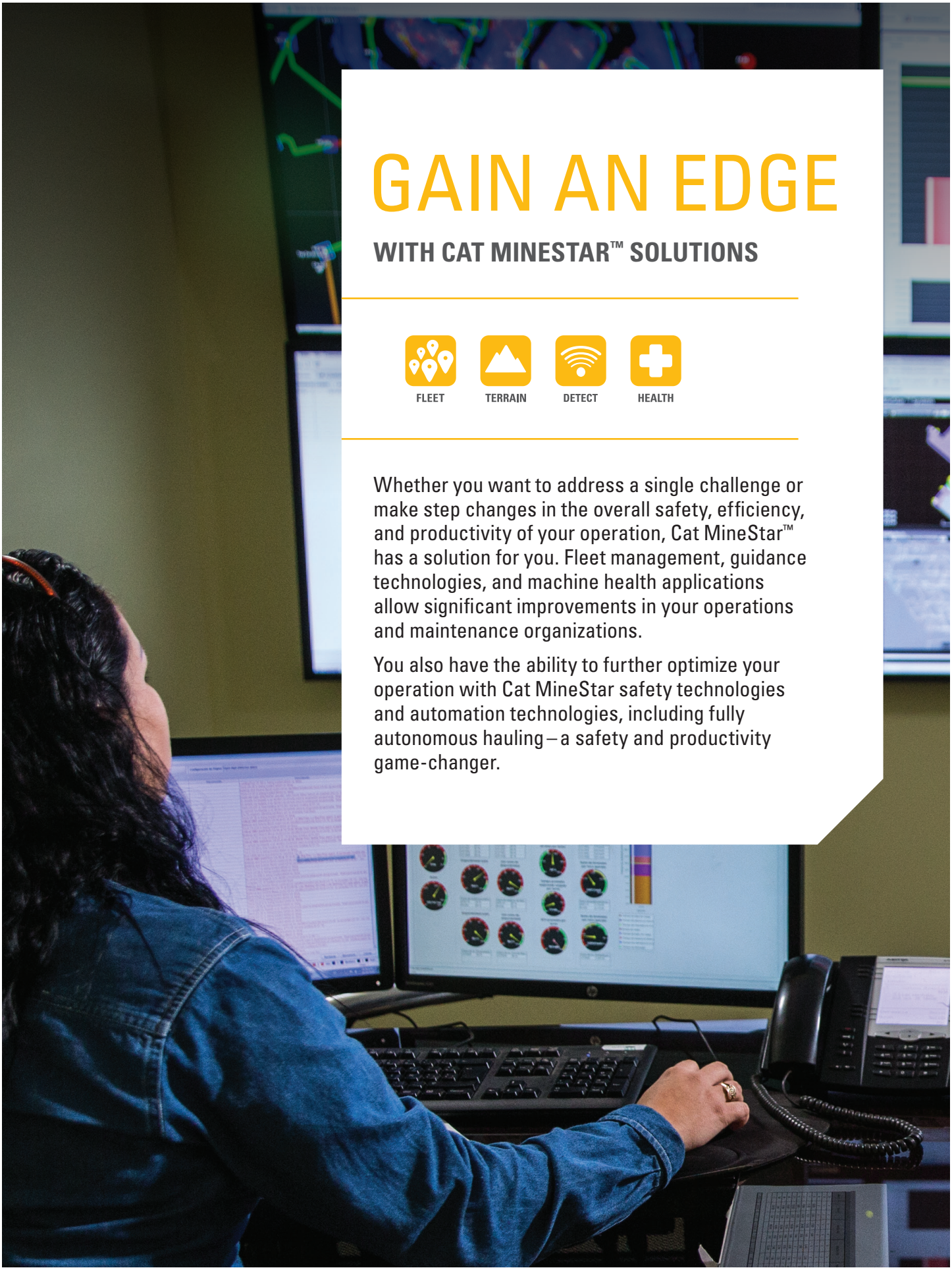
Cat engines are compatible with diesel fuel blended with lower-carbon intensity fuels such as biodiesel FAME (fatty acid methyl ester). They are also compatible with renewable fuels such as HVO (Hydrotreated Vegetable Oil) and GTL (Gas-to-Liquid) alternative fuels that are drop-in replacements for diesel. HVO and GTL are acceptable for use in all Cat engines at any blend level and up to 100%.



# MORE POWER, LOWER COSTS

The 789 comes with two engine options: the Cat 3516B and 3516C EUI. Both of these quad turbocharged diesel engines deliver high power and reliability in the world's most demanding mining applications. The engines are 16-cylinder, four-stroke designs that use long, effective power strokes for more complete fuel combustion and optimum efficiency. High displacement, low rpm rating, and conservative horsepower ratings mean more time on the haul roads and less time in the shop.





# GAIN AN EDGE

## WITH CAT MINESTAR™ SOLUTIONS

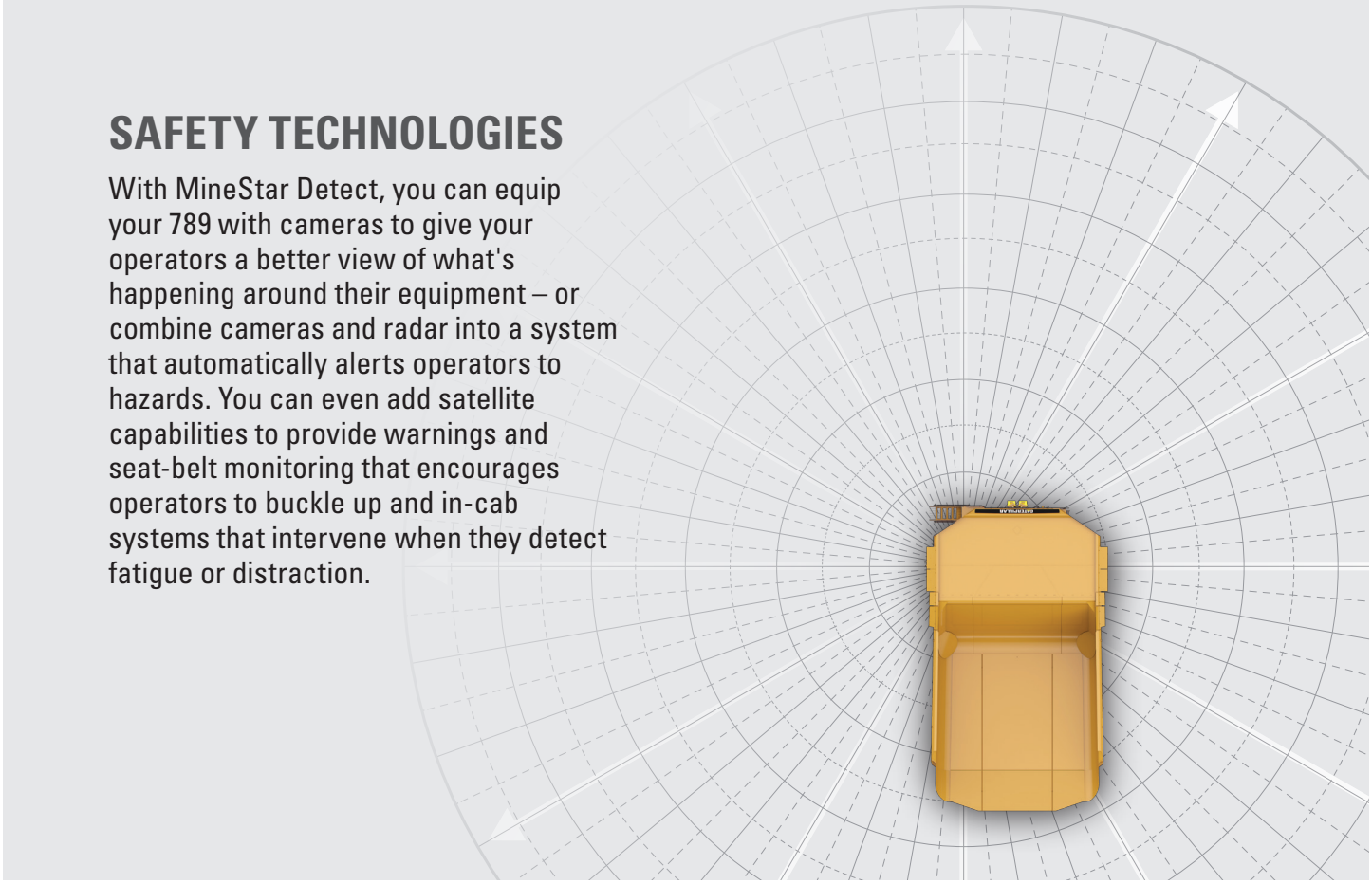
FLEET TERRAIN DETECT HEALTH

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.

## SAFETY TECHNOLOGIES

With MineStar Detect, you can equip your 789 with cameras to give your operators a better view of what's happening around their equipment – or combine cameras and radar into a system that automatically alerts operators to hazards. You can even add satellite capabilities to provide warnings and seat-belt monitoring that encourages operators to buckle up and in-cab systems that intervene when they detect fatigue or distraction.







# SUPPORTING PRODUCTS AND PRODUCTIVITY

Our commitment to your success doesn't end when your Cat 789 begins hauling 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.

## 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, 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.

Jobsite 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.



Caterpillar and Cat dealer personnel will assist 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.

We also work alongside you to ensure you achieve high value throughout the life of your equipment. 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 consultant to manage your maintenance organization. We can also help you make smart decisions about buying, operating, maintaining, repairing, rebuilding, and replacing equipment.

## SUPPORT FOR THE COMPLETE EQUIPMENT LIFECYCLE

No one knows more about how to get the most from a piece of Cat equipment than your local Cat dealer. This one-of-a-kind, on-the-ground support network delivers expert service, integrated solutions, after-sales 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.

## CAT CUSTOMER VALUE AGREEMENTS (CVAS)

Cat Customer Value Agreements (CVAs) for mining help you optimize 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 your 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.

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.



# 789 (04)

# PASS MATCH



| | | | |
|---|---|---|---|
| LWL | 993 |  | 7 |
| | 994 |  | 4-5 |
| | 995 |  | 4 |
| HMS | 6030 |  | 6 |
| | 6040 |  | 5 |
| | 6060 |  | 3-4 |
| ERS | 7495 |  | 3 |

# TECHNICAL SPECIFICATIONS 789(04)

See cat.com for complete specifications.

| ENGINE | | |
|---|---|---|
| Engine Model | Cat® 3516C – HD | |
| Gross Power – SAEJ1995 | 1566 kW | 2,100 hp |
| Net Power – (ISO 9249) | 1468 kW | 1,969 hp |
| Rated Speed | 1,750 rpm | |
| Emissions Rating | Fuel Optimized or U.S. EPA Tier 2 equivalent | |
| Bore | 170 mm | 6.7 in |
| Stroke | 215 mm | 8.5 in |
| Displacement | 78.1 L | 4,766 $in^3$ |

| OPTIONAL ENGINE | | |
|---|---|---|
| Engine Model | Cat 3516B – EUI | |
| Gross Power – SAEJ1995 | 1417 kW | 1,900 hp |
| Net Power – (ISO 9249) | 1320 kW | 1,770 hp |
| Rated Speed | 1,750 rpm | |
| Emissions Rating | Fuel Optimized | |
| Bore | 170 mm | 6.7 in |
| Stroke | 190 mm | 7.5 in |
| Displacement | 69 L | 4,211 $in^3$ |

Net Power advertised is the power available at the flywheel when the engine is equipped with air intake system, exhaust system, direct drive fan, and alternator.

+ Power ratings apply at 1,750 rpm when tested under the specific conditions for the specified standard.
+ Ratings based on SAE J1995 standard air conditions of 25°C (77°F) and 99 kPa (29.32 Hg) barometer. Power based on fuel having API gravity of 35 at 16°C (60°F) and an LHV of 42 780 kJ/kg (18,390 BTU/lb) when engine used at 30°C (86°F).
+ 3516B engine, no derate required up to 2300 m (7,500 ft) altitude.
+ 3516C engine, (U.S. EPA Tier 2 equivalent) no engine derate required up to 2743 m (9,000 ft).
+ 3516C engine, (Fuel Optimized) no engine derate required up to 3658 m (12,000 ft).

| WEIGHTS – APPROXIMATE | | |
|---|---|---|
| Rated Gross Machine Weight (RGMW) | | |
| Tire size 37R57 | 324 319 kg | 715,000 lb |
| Tire size 40R57 | 324 319 kg | 715,000 lb |
| Chassis Weight (CW) | | |
| Tire Size 37R57 | 102 821 kg | 226,681 lb |
| Tire Size 40R57 | 106 010 kg | 233,713 lb |
| Body Weight (BW) | | |
| Dual Slope (108 $m^3$ capacity) | 27 365 kg | 60,331 lb |
| X Body (123 $m^3$ capacity) | 30 107 kg | 66,376 lb |
| MSD II (130 $m^3$ capacity) | 24 113 kg | 53,161 lb |
| HP Body (144 $m^3$ capacity) | 27 137 kg | 59,828 lb |
| Coal Body (191 $m^3$ capacity) | 28 300 kg | 62,390 lb |
| Combination Body (153 $m^3$ capacity) | 28 633 kg | 63,125 lb |
| Nominal Payload (NRP) | | |
| Tire size 37R57 | 194 tonnes | 214 tons |
| Tire size 40R57 | 191 tonnes | 211 tons |

+ Consult your tire manufacturer for maximum tire load.
+ Chassis weight with full fuel and fluids, standard and mandatory attachments, hoist, body mounting group, rims, and tires.

| WEIGHT DISTRIBUTIONS – APPROXIMATE | |
|---|---|
| Front Axle – Empty | 50% |
| Rear Axle – Empty | 50% |
| Front Axle – Loaded | 33% |
| Rear Axle – Loaded | 67% |
| + Weight distributions optimized with Cat body. | |

| FINAL DRIVES | |
|---|---|
| Double-reduction, planetary with full floating axles | |
| Differential Ratio | 2.35:1 |
| Planetary Ratio | 10.83:1 |
| Total Reduction Ratio | 25.46:1 |

| TRANSMISSION | | |
|---|---|---|
| Forward 1 | 12.6 km/h | 7.8 mph |
| Forward 2 | 17.1 km/h | 10.6 mph |
| Forward 3 | 23.1 km/h | 14.4 mph |
| Forward 4 | 31.2 km/h | 19.4 mph |
| Forward 5 | 42.3 km/h | 26.3 mph |
| Forward 6 | 57.2 km/h | 35.5 mph |
| Reverse | 11.8 km/h | 7.3 mph |
| Top Speed – Loaded | 57.2 km/h | 35.5 mph |

*(Continued on next page)*

# TECHNICAL SPECIFICATIONS 789(04) *(CONTINUED)*

See cat.com for complete specifications.

| TIRES AND RIMS |
|---|
| Standard Tires 37R57 |
| Optional Tires 40R57 |

+ Quick Change Rims optional.
+ Caterpillar recommends the customer evaluate all job conditions and consult the tire manufacturer for proper tire selection and TKPH (TMPH) capabilities.

| BRAKING SYSTEM | | |
|---|---|---|
| Service Brakes: Four-Corner, Wet Disc, Oil Cooled, Air Over Hydraulic Actuated | | |
| Front Brake Surface Area | 81 693 $cm^2$ | 12,662 $in^2$ |
| Rear Brake Surface Area | 116 283 $cm^2$ | 18,023 $in^2$ |
| Standards | ISO 3450:2011 | |
| Parking Brake: Four-corner, multi-disc, spring applied, hydraulically released | | |

| BODIES | | |
|---|---|---|
| Standard MSD Body (SAE 2:1) | 130 $m^3$ | 170 $yd^3$ |
| Standard X Body (SAE 2:1) | 123 $m^3$ | 161 $yd^3$ |
| Standard Dual Slope Body (SAE 2:1) | 108 $m^3$ | 141 $yd^3$ |
| Standard Combi Body (SAE 2:1) | 153 $m^3$ | 200 $yd^3$ |
| Standard Gateless Coal Body (SAE 2:1) | 191 $m^3$ | 250 $yd^3$ |
| Standard HP Body (non-heated) (SAE 2:1) | 144 $m^3$ | 188 $yd^3$ |

+ Refer to the Cat Mining Truck 10-10-20 payload policy for maximum gross machine weight limitations.

| BODY HOISTS | | |
|---|---|---|
| Twin, two-stage hydraulic cylinders with snubbing valve | | |
| Pump Flow – High Idle | 699 L/min | 184 gal/min |
| Relief Valve Setting – Raise | 18 950 kPa | 2,750 psi |
| Body Raise Time – High Idle | 18.9 Seconds | |
| Body Raise Time – High Idle Body | 17.3 Seconds | |
| Body Lower Time – Float | 15.6 Seconds | |

| SUSPENSION | | |
|---|---|---|
| Self-contained nitrogen/oil cylinders, pin-to-pin mounting, top and bottom double shear clevis attachments | | |
| Effective Cylinder Stroke – Front | 105 mm | 4.0 in |
| Effective Cylinder Stroke – Rear | 93 mm | 3.5 in |
| Rear Axle Oscillation | +/- 5.4 degrees | |

| SERVICE REFILL CAPACITIES | | |
|---|---|---|
| Fuel Tank | 2082 L | 550 gal |
| Fuel Tank (Optional) | 3785 L | 1,000 gal |
| Cooling System | 725 L | 192 gal |
| Crankcase | 291 L | 77 gal |
| Differential and Final Drives | 583 L | 154 gal |
| Steering System (Includes Tank) | 189 L | 50 gal |
| Brake/Hoist System (Includes Tank) | 909 L | 241 gal |
| Transmission Tank | 76 L | 20 gal |

| CAB | | |
|---|---|---|
| Air Conditioning | 6.9 kW | 23,543 Btu/hr |
| Heater/Defroster | 10.1 kW | 34,462 Btu/hr |
| Operator Sound pressure level Tested to ISO 6394:2008 and ISO 6396:2008 | 80 dB(A) | |
| Rollover Protective Structure (ROPS) for: | | |
| Operator meets | ISO 3471:2008 | |
| Trainer meets | ISO 13459:2012 | |
| Falling Objects Protective Structure (FOPS) for: | | |
| Operator meets | ISO 3449:2005 Level II | |
| Trainer meets | ISO 13459:2012 Level II | |

| STEERING | | |
|---|---|---|
| Steer Angle | 36.07 degrees | |
| Turning Diameter (ISO 7457:1997) | 27.53 m | 90.32 ft |
| Steering Standards | ISO 5010:2019 | |




# 789 (04) MINING TRUCK

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

Materials and specifications are subject to change without notice. Featured products in photos may include additional equipment. See your Cat dealer for available options.

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