A Caterpillar publication serving the global paving industry





Speedy Work on Country Roads

Paver's pace helps Czech project advance



Global Footprint



Lieven Van Broekhoven Worldwide Sales and Marketing Manager

ur participation in three major trade shows on three continents in 2012 underscores the global footprint of Cat® Paving Products. Representatives from many Cat Dealers and from the various manufacturing facilities will be on hand at Intermat 2012 in Paris, at bauma in Shanghai, and at M&T Expo in São Paolo. (See story on page 16.).

Caterpillar is accustomed to being among the largest exhibitors at all levels of equipment shows, but at Cat Paving we've subscribed to more space than ever in 2012 in order to display new models in several product lines. These are not warmed-over models, renamed due to engine upgrades. There is new technology on display in every product line.

Take soil compactors, for example. Up until today, the intelligent compaction technology available to customers has been limited, both in application range and in terms of what the technology measured. Our innovative new technology, Machine Drive Power, offers customers more versatility and a more relevant measurement—something they have been asking for. Suddenly, technology can help create efficiencies and great profitability in a wide range of applications, not simply under a certain set of ideal parameters. That is what technology is supposed to do.

Take the quickest of looks at our new rollers and it's clear we aren't unveiling new models simply because a certain number of years have passed on the calendar. We are bringing to market new products and technologies that impact your jobsites.

These products, of course, will be on display at the trade shows.

If you go to any of the big events this year, look me up. I'll be there. We'll talk Cat technology.

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Speedy Work on Country Roads

Paver's pace, travel time add efficiencies

he rural roads near Brandýs nad Labem, in the heart of the Czech Republic, may not be as heavily travelled as their counterparts in Prague, about 25km (15.5 miles) to the southwest, but they are nevertheless crucial pipelines to the rural and agricultural areas of the country.

An assessment by regional authorities indicated that these roads are in need of repair. That led to cold planing and paving work on a series of rural roads near Brandýs nad Labem.

Regional authorities have two key requirements: The roads must stay open during the work because many are the only viable option, and the work must be completed quickly (five days for one particular stretch of road) to permit usual traffic patterns to resume as soon as possible.

USK s.r.o., headquartered in Mladá Boleslav, was hired to handle the regional road project. The key for the firm was transferring both the knowledge and the equipment often used in urban settings to the rural project, said Ing. Jan Horák, the company's chief executive officer.

The region

Brandýs nad Labem-Stará Boleslav is the town nearest the roadwork. The town—a merger of the onceindependent towns Brandýs nad Labem and Stará Boleslav—is in the Czech Republic, in the central Bohemian Region, and technically rests within the metropolitan area of Prague. The origins of the towns date back to the 13th century.

Brandýs nad Labem-Stará Boleslav has a population of about 15,000. It remains a town with a rural feel to this day, despite its proximity to Prague and the major thoroughfares between the two. Smaller roads, meanwhile, reach out from Brandýs nad Labem-Stará Boleslav to the rural areas. This is where the work took place.

The challenges

The recently completed five-day section is 4,200m (2.6 miles) long and 6 m (20') wide. Since half the road was required to remain usable, USK Mladá Boleslav needed a paver capable of working at a width of 3m (10'). This paver also had to be capable of laying down 800 metric tons (882 U.S. tons) of asphalt per day for five days. That meant the crew and paver had to achieve good production levels.

Working at the 3m (10') width, a Cat® AP555E Asphalt Paver was assigned to handle the paving. The open road also meant the crew, particularly operators, had to watch out for traffic. The paver's platform helped with this challenge. The seats could easily be turned for better visibility. Dual control stations enabled operators to switch seats without taking their eyes off the important work at hand.

The ability to easily work from either side of the operating platform also helped keep the paving train working at a quick pace, as did the grip of the Mobil-TracTM system. The tracks grip the surface and thus provide both excellent manoeuvrability and speed that lead to outstanding quality and pace, said Jiří Široký, Sales Manager of Road Technology at Phoenix-Zeppelin, the local Cat

Dealer. "The Cat AP555E track paver easily moves over soft base materials and the operator can easily maneuver it when paving," adds Široký.

Crews worked at a pace of up to 8m (26') per minute. They consistently reached the high end of the production target. This is a very quick pace considering the mat thickness of 50mm (2"). It requires all elements trucking, paving and compaction—to be in sync.

Speed when not paving, too

The paver worked for a half day in a single direction, then returned to that day's starting point and laid down the second half of the road with a longitudinal joint. Time is lost while returning to the starting point, yet the AP555E again proved to be efficient.

Whereas the travelling speed of other machines with track undercarriages is 4km (2.5 miles) per hour, the medium class AP555E paver can travel up to four times faster. "Faster travelling speed means fewer delays during work, which is then reflected in the work results in the form of lower time requirements for the completion of a job," said Široký.

The AP555E was also enhanced by a 190 litre (50 U.S. gallon) fuel tank, which eliminated the need for frequent refuelling and minimised work delays. "We only had to refuel every second day," said Horák. "It's a very important advantage. With the old paver (which was not a Cat machine) we had to refuel every day."

Planning for production

Planning played a key role. USK Mladá Boleslav in particular focused on material supplies, counting trucks and loads to ensure consistent delivery of asphalt. The steady delivery kept machines moving consistently, a crucial step in segregation prevention.

USK Mladá Boleslav determined the total volume of material. They factored in a project length of 4,200m (2.6 miles), multiplied by the 6m (20') width of the road, plus exits and entrances, at about 4,000 metric tons (4,400 U.S. tons). The deadline of five days meant the firm would have to place about 800 metric tons (882 U.S. tons) per day.



Properly planned compaction efforts are crucial to speedy paving.



Multiple sensor readings helped ensure a

Each haul truck had a capacity of 30 metric tons (33 U.S. tons), and had to travel 40km (25 miles) from the plant to the jobsite. A round trip took approximately 90 minutes to two hours, equating to four round trips per truck per day. USK Mladá Boleslav then calculated it needed six trucks to keep the paver moving steadily.

The mix had a stone size of 4-8mm (0.15-0.30"); it arrived at a temperature of 160°C (320°F) and was placed at 145°C (295°F). The material was end-dumped into the paver.

Segregation prevention

A number of precautions were taken to prevent segregation. Loads were tarped at the plant to maintain temperature. In addition, special focus on the trucking pattern ensured mix arrived at proper temperatures. Four independent sensors on spreader augers and conveyors provided the proper amount of material to the AS4252C screed—electrically heated to help keep the temperature of the mix consistent.

Compaction and completion

Specified compaction values were achieved with vibrating tampers on the paver's smoothing bar, followed by compaction with a Cat CD534B vibration roller weighing 12 metric tons (13 U.S. tons). The entire job was completed on time and surface smoothness and quality goals were met.

USK Mladá Boleslav, like its parent company H-INTES s.r.o., had already purchased Cat earthmoving machines and compacting equipment prior to the contract, and now is pleased to also include pavers in its equipment lineup.

"We chose a Cat machine for road paving because it is an established and reliable brand," said Horák. "Phoenix-Zeppelin offered us very good conditions and service. I expect that we should get a full return on our investment in the machine within an acceptable timeframe."



Segregation prevention efforts included tarped loads.



Comfort and Confidence

Full line of Cat® Compactors unveiled



hether you are compacting soil or asphalt, Caterpillar has a new line of equipment that will suit your needs.

Changes to the compactors include more models to choose from. Both Cat® Tandem Drum and Soil Compactors now cover virtually all weight classes. No matter the size, the compactors provide a significant comfort boost to help keep operators alert and productive throughout their shift.

The redesigned cab has best-in-

- class climate control and multipurpose windows.
- · The control console and display are integrated with a pivoting seat.
- The display provides instrumentation data and diagnostics at a glance.

The compactors deliver confidence, too. Improved evaluation tools ensure asphalt compactor operators arereaching proper targets. New technology has created significant improvements in assessing soil compaction, and smooth and padfoot

roller operators now can assess more accurately than ever.

Cat Soil Compactors Quality—and Comfort, Too

Cat Soil Compactors are more comfortable than ever with their bestin-class climate controlled cab. They also are built for productivity.

- · Achieve quality compaction faster thanks to more weight at the drum and best-in-class amplitude.
- Exclusive electronically controlled dual pump propel system

- provides exceptional traction and gradeability, and plenty of power for a levelling blade.
- Standard technology such as automatic speed control and autovibe maximise functions that enable high quality and uniformity.
- Pad designs include the exclusive involuted, tapered oval-face or the square-face to fit the application requirement.
- Service intervals for the vibratory systems are 3 years/3,000 hours to improve uptime and reduce service costs.
- Hydraulic service intervals also are at 3 years/3,000 hours.
- Tier 4 Interim/Stage IIIB engine utilised.
- Industry-proven pod-style vibratory system delivers unparalleled performance and reliability in a virtually maintenance-free design.

Cat Compaction Control for Soil Compactors

Cat soil compactors feature an enhanced measurement solution in the form of Cat Compaction Control. It provides compaction information that eliminates guesswork and enables the operator to quickly and confidently move to the next job. Two different optional compaction measurement technologies are available: Compaction Meter Value (CMV) or Machine Drive Power (MDP).

- Factory integrated system measures compaction and outputs real-time measurements via the console display unit.
- Can be augmented by adding an SBAS GNSS mapping antenna and a dedicated display unit that enables the operator to visually monitor results, map them to locations and save the data.
- An available RTK GNSS mapping capability provides greater accuracy than SBAS.

Compaction Meter Value (CMV)

- An optional accelerometer-based measurement system for granular soils, only available on smoothdrum soil compactors.
- Functioning while the drum vibrates, it measures deep into the ground, 1-1.2m (3-4'), providing

- a picture of what is beneath the surface.
- · Can reveal the location of
- hidden anomalies (such as buried objects, rocks, clay balls) or areas of poor compaction.

Machine Drive Power (MDP)

- An exclusive technology only available from Caterpillar.
- Indicates soil stiffness by measuring rolling resistance.
- Available on new padfoots, smooth drums and smooth drums with shell kits.
- Functions when the drum is static or vibrating.
- Measures closer to depth of the lifts of materials being compacted, around 30-60cm (1-2') deep.
- Can be used on all soil types.
- Measures shallow which provides results that can be correlated with portable measuring equipment such as lightweight falling deflectometers and nuclear gauges.

TANDEM VIBRATORY ROLLERS Available in All Sizes You Need

A full range of machines sized for virtually any road-building application are available in solid and split drum,







helping reduce tearing and other mat defects that can result when turning. Finish work receives a boost with the oscillating hitch design and the ride quality it provides—whether working on level or uneven terrains.

- Redistributed weight at the drum and best-in-class amplitude help quickly reach densities on both asphalt and other granular materials.
- Vibratory system service intervals are 3 years/3,000 hours for maximum uptime and reduced service costs.
- Hydraulic system intervals at 3 years/3,000 hours.
- High reliability because of robust design.
- Tier 4 Interim/Stage IIIB engine.
- A water spray system with single fill point and high capacity provides a long duration between fills.

Technology to Ensure Compaction Control

- The tandem vibratory rollers can be adjusted to varying surfaces and conditions.
- A single switch automatically matches amplitude with frequency.

- The five amplitude system provides the needed punch for thick lifts and tough mix designs.
- The Versa VibeTM Vibratory System creates a "2-in-1" machine in the CB54B model by enabling lighterhitting at higher speeds, or heavier hitting at slower speeds, while meeting the desired impact spacing.
- Optional Cat Compaction Control provides temperature measurement to keep operators informed. The system can be augmented with GNSS mapping capability, which maps temperature measurements and enables pass count.

Other Tandem Roller Features

- Unobstructed sight lines with 180° seat positioning and ability to rotate 360°.
- Innovative hand-wheel steering technology that eliminates the front console and delivers precise control.
- Lighting at the drum surface and edge makes nighttime operation easier.

Call your Cat Dealer for information about the value new Cat rollers can bring to your crew.



Precision's Role in Profitability, Productivity



Cat® Grade and Slope eliminates rework, establishes foundation for success

roductivity and profitability mean more than how many metres per minute your cold planer mills. In today's world, precision is every bit as important as pace.

Precision eliminates costly rework. It ensures crews don't remove excess materials, and incur the associated costs in fuel, hauling and machine life. Precision also impacts the entire life—and cost—of a project by creating the proper foundation on which all subsequent work occurs.

Cat[®] Grade and Slope for cold planers helps deliver that precision. Among the "precise control" benefits of the

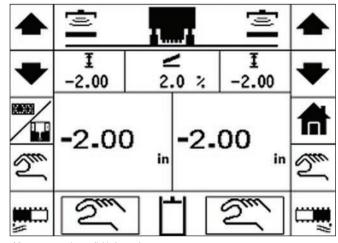
- Typical setup utilises more data samples than competitive systems, providing a more accurate representation.
- Cross coupling capability improves machine responsiveness, providing superior surface quality and
- Automatic calibration ensures consistent setup and delivers optimal performance.
- An intuitive operator's display makes the technology easy for crews to leverage in real-world, on-the-job conditions.
- Sonic sensors feature five ceramic transducers per unit, each far more durable than foil transducers.
- Contact and wire rope sensors have wide reference ranges, resist heat and wind, and provide clean signals for high accuracy.

The benefits of Cat Grade and Slope don't end there.

Single-source supplier. The Cat system is a perfect match for your Cat Cold Planer. Cat Grade and Slope also enables you to take advantage of all the services available through your dealer—including support and financing.

Increased reliability. Uptime is maximised because factory installed and sealed components are built to meet the rigours of demanding milling applications and are resistant to heat, vibration and moisture.

Call your Cat Dealer to see the Cat Grade and Slope system at work.



Measurements also available in metrics



Historic Innovation

Florence tries new approach to repairs in key district





aintenance of roads in historic districts is a challenge for communities around the world. The sanctity of the surroundings limits the amount of re-engineering and widening that can be considered. Improvement options typically are limited to repairs.

Yet repairs also have an impact. The historic areas usually attract tourists and their crucial economic contributions. If the street repairs create too much of an inconvenience, tourists are likely to avoid the area and a negative economic impact and a loss of goodwill with area merchants can easily result. But deteriorating streets that are not repaired also can impact travel, and reflect poorly on the community.

Outside visitors and merchants aren't the only people of concern. The local residents who use the streets for their own purposes are also likely to be vocal over the condition and repair of roads.

Florence, Italy, found itself in a difficult balancing act. Streets in its District 5 were deteriorating rapidly. Yet the city couldn't make comprehensive changes given the footprint of the roads in relation to the historical surroundings. Still, something clearly needed to be done.

Taking action

The city of Florence came up with an innovative plan. It gave Italian paving contractor AVR SpA complete control



of street repairs in District 5. The initial contract ran for four months, and was then extended for two more months.

AVR monitored the roads in a variety of ways. Its own staff spotted trouble spots. It also created a 24-hour call centre that could be accessed by police, city workers and AVR staff who observed potholes and other obstructions. The reports of road problems were categorised as "emergency," when action was required within 45 minutes, or "nonemergency," which allowed crews to respond within three days.

AVR also conducted its own safety analysis of the road network to identify infrastructure dangers, and prioritised the work associated with its findings.

Viale Corsica work

One District 5 street, Viale Corsica, quickly became a priority project. The extent of the deterioration meant the road needed to be repaired, not simply patched.

The most urgent repairs were needed in the bus lane. The lane is crucial to travel for thousands in the district. The repair work would have to be completed quickly.

The bus lane is adjacent to other traffic lanes that had to remain open, meaning tight, maneuverable equipment was required. Yet the demands of the job meant productivity couldn't be sacrificed.

AVR turned to the Cat® PM200 Cold Planer to remove the existing,



AVR SpA

- Work includes road building and maintenance.
- Handles commercial building construction.
- Sustainability efforts include reuse of asphalt during reclaiming process; also handles chemical and physical reclamation of polluted sites.
- Clients include a number of Italian governmental agencies.
- Operations in Lazio, Tuscany and Calabria, Italy; subsidiaries in Lombardy and Puglia.



damaged surface; the Cat AP600D Asphalt Paver to place the new surface; and a Cat CD54 Tandem Vibratory Roller to ensure the new mat had the density required to support the projected loads for a long time.

"The intervention was not particularly difficult from a technical point of view, but posed some problems relevant to the need of working on the congested road at peak times, having to leave one lane open," said Lorenzo Porciani, AVR Manager. "We milled and rebuilt 4cm of mat, about 350m long and 12m wide."

AVR watched the Viale Corsica project closely, as did City of Florence officials. Work on that street was used as barometer of how the equipment would handle necessary repairs on other tight streets. The project was successful, and now medium to large interventions—those above $100m^2$ of extension—will use five Cat machines: The PM 200, AP600D, CB34XW, CB434D and CD54.

"The machines were productive and able to function well within the limitations of the bus lane," Porciani said.

Choosing a machine

AVR chose Caterpillar because of the machines' productivity and the customer service support through Italian Dealer, CGT. A recommendation from another paving contractor also played a key role.

"We opted for a Caterpillar fleet, for the undoubted excellent features of the machines that were also praised by another important company with whom we worked in the past," said Porciani. "We also appreciated the guarantees offered by a Cat Dealer such as CGT. From technical assistance to rental, if needed, we know we can count on them, with the great advantage of having a single point of contact for all needs."

The final results

The machines performed well on the Viale Corsica jobsite. "Thanks to the high productivity of the Cat PM200, to the excellent qualities of paving and compaction of the AP600D and CD54, we finished in a day, and replaced the road signs the following day," Porciani said.

The Cat machines continue to handle the more extensive District 5 repairs, while AVR also pursues other improvements such as pothole patching. The scope of the work has proven to be a success for both AVR and the City of Florence. In six months more than 5,000 potholes were filled in District 5, including 143 emergency patching projects. In addition, more than 84 milling and repaving operations occurred on 20 different district streets.

"For the toughest jobs, AVR relies on Caterpillar paving machines and the Italian dealer CGT for service," Porciani said.

CAT® CD54 MAKES A DIFFERENCE

AVR SpA was one of the first Italian firms to purchase the Cat® CD54 Tandem Vibratory Roller. "The operators especially appreciated the traction, manoeuvrability and perfect visibility, thanks to the cab's large windows," said Lorenzo Porciani, AVR Manager. "But it is definitely the high productivity that impressed us most."

Among the features of the CD54:

- Effective on all types of asphalt mix
- Split drums provide superior finish and tight turning radius without damaging the mat.
- Wide offset steering provides high production.
- Pod-style vibratory system delivers optimum compactive force while offering serviceability advantages.
- Durable water spray system with dual pumps, dual spray bars and triple filtration ensures reliable performance.
- Good visibility enables precise control and operator comfort.



Offset drums helped the roller cover more area.

Global Presence Visible at Trade Shows in 2012

Products introduced at key events



Paving Products 4,000-squaremetre exhibit at Intermat 2012 (April 16-21) will quickly learn that the space is necessary to house the many new Cat® paving products.

Dozens of representatives from Caterpillar Paving Products and Cat Dealers will also be on hand to discuss the many production-boosting benefits of the new products, operator comfort and technology advances, as well as innovative and time-saving service enhancements.

The commitment in terms of space, products and people is "unprecedented," according to Josh Meyer, Regional Manager for Caterpillar Paving Products in Europe, Africa and the Middle East (EAME).

Overall, Caterpillar has reserved 8,000 square metres of space at the show, with half devoted exclusively to paving. "Intermat is by far the largest display of paving products at any trade show in our history," Meyer said.

History will repeat itself during the balance of 2012 and beyond, as Intermat 2012 is only the beginning. Caterpillar Paving Products is also planning unprecedented participation levels at bauma China in Shanghai; the M&T Expo 2012 in São Paolo, Brazil; and several other international, national and regional trade shows.

"Our presence at these important trade shows is an excellent opportunity to make a strong statement about the many customer-oriented investments Caterpillar has made in the paving industry," said Harry Lee, Region Manager for Asia Pacific and CIS. "Not only will customers and







prospects see a full array of new paving products, they will also appreciate the advances in customer support services available from the Cat Dealer network throughout the world."

The beginning

About two years ago, Caterpillar Paving Products underwent a reorganisation to help them better serve the worldwide paving market. The leadership of the group made it clear that paving was the focus—and the entire world was the market. This ambitious commitment included the development of many new products that incorporate key changes and enhancements derived from customer input.

The product development dreams have now become product introduction realities. The fruits of the resulting engineering and design investments will soon be on display at several highprofile trade shows followed closely by application on customer jobsites around the world.

"The commitments made just a few years ago are now coming to market," said Meyer. "Intermat 2012 is the ideal venue for the global introduction of these many new models."

Products being displayed will vary by show. Intermat will feature a full line of pavers, including the new AP255E and AP1055E; a new line of vibratory soil compactors; a new line of tandem vibratory rollers; and a pneumatic roller.

Ongoing investment

The unprecedented trade-show investment follows earlier news from

Caterpillar Paving Products about improved manufacturing facilities and processes at plants in France, Italy, China and Brazil. A Customer Solutions and Learning Center was unveiled in the U.S., with plans for similar facilities in other locations expected to follow.

Caterpillar Paving Products also has taken steps to strengthen customersupport links. The enhanced service offerings available through Cat Dealers will be a major emphasis at every trade show. "Customers will really appreciate the massive investments in expanded support capabilities made by Caterpillar and Cat Dealers," Meyer

Meyer and other members of the Caterpillar Paving Products team are anxious for the shows to begin. "These shows provide perfect opportunities to demonstrate our total commitment to the specific needs of customers and prospects throughout the paving industry," Meyer said. "For thousands of dedicated Caterpillar and Cat Dealer paving people, the paving industry is what Caterpillar does-and who Caterpillar is."



You're Invited

Make the most of your factory visit with questions and observations

hose who make a factory visit part of their purchasing process come away from the tour confident that the time investment is very worthwhile. But simply visiting does not maximise the opportunity. The visit also requires some forethought and preparation.

"Visit any of our manufacturing facilities around the world and you will see the care, quality, technology and craftsmanship that go into each and every machine we build," said Lieven Van Broekhoven, Worldwide Sales and Marketing Manager for Caterpillar Paving Products. "Witnessing that process can be a crucial factor when you're evaluating your equipment options."

The answers to questions you ask

before, during and after your tour will tell you much about a company, its products and the after-sale support you can expect to receive.

1. Was it difficult to schedule the tour?

Difficulty here might signal disorganization that can carry over to product delivery and even after-sales support. An even worse scenario: Some manufacturers don't want visitors to scrutinise their processes and products. A quality manufacturer, meanwhile, will be thrilled that a potential customer is touring.

2. What role do workers play?

Are they engaged, focused and

hard at work? Are they available to answer your questions? Some manufacturers discourage workers from talking to customers.

Conversely, Caterpillar Paving Products is eager for those on the manufacturing lines to share information with customers.

3. What do the components look like? This is the best view you will ever

have of some components and parts waiting for assembly. Are they thick? Polished? Smooth? Properly coated and protected?

4. Does the tour focus on what you really care about?

A tour that anticipates and answers your questions is an indication that the company understands what matters to its customers—and the industry, too.

5. Is contamination control a theme?

Watch for, and ask about, dust control efforts. Check to see if hoses are capped. Look in the parts area to see how inventory is packaged, stored and handled. Clean work stations also lessen the chances of contamination.

6. Does the process flow?

A smooth manufacturing process is a sign of a well-organised manufacturer. Quality products result from quality processes. Also, efficiency helps keep costs in check.

7. Is rigorous testing part of the routine?

Watch how frequently machines are being evaluated. Are the



workers attentive to the tests, or simply going through the motions?

Are hoses and wires on the machines cared for?

The tour provides an opportunity to see areas of the machines you'll rarely have access to again. What happens in those hidden spots can have a significant impact on quality. Hoses should be separated with isolation mounts; it's a small step that helps eliminate rubbing. Watch for contact points with wires, too.

9. What role does technology play?

Laser cutting and advanced welding processes are essential to ensure perfect fits and sturdy bonds. Has the manufacturer invested in, and updated its facilities to automate steps that require the greatest precision?

Scheduling a tour will help you answer these questions, and more. Call your Cat® Dealer to make arrangements for a factory tour as part of your product evaluation and purchasing process.



Customers review the manufacturing process during a factory tour.



The U.S. facility in Brooklyn Park, Minn.



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VERSATILE CAT® ASPHALT COMPACTORS USE PROVEN TECHNOLOGY THAT IS EASY TO SET UP FOR ANY MIX OR APPLICATION.

Not every mix and application is the same, so your asphalt compactor should be versatile and easy to set up to match performance to ever-changing conditions. Cat® Asphalt Compactors get the work done on the breakdown pass, when the mat temperatures are higher and conditions are optimal for compaction.

To get the real story on asphalt compaction, visit your Cat Dealer today.

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