## GM Agrees to Pay \$35M Fine in Ignition Recall

General Motors last week agreed to pay \$35 million as a civil penalty for violating federal safety laws, according to a statement by the U.S. Department of Transportation.

The fine was levied by the Na-Safety Administration (NHTSA) specifically for delaying the recall of cars with faulty ignition

GM CEO Mary Barra said, "We tional Highway Transportation have learned a great deal from this recall. We will now focus on the goal of becoming an industry leader in safety.

"We will emerge from this situ-

ation a stronger company."

GM has already begun reviewing processes and policies to avoid future recalls of this nature, a GM press release stated.

Jeff Boyer, GM vice president

of Global Vehicle Safety, who is assigned to integrate safety policies across GM, said, "We are working hard to improve our

info@detroitautoscene.com

**CONTINUED ON PAGE 4** 

# Detroit Auto Scene®

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**MAY 19, 2014** 

## It's Quality All the Way for Chrysler 200s As SHAP Implements Car's Final Testing

If producing quality was easy, of the vehicle's exhaustive quali- laboratory staffed with an on-site everyone would do it.

VOL. 82 NO. 19

Making good vehicles requires hard work and dedication, said Chrysler spokesperson Kathy Graham.

That's why, she said, all 2015 Chrysler 200s shipped to dealers must first pass through the Sterling Heights Assembly Plant's (SHAP) newly-added Quality Assurance Center in the final step ty process.

Randomly selected vehicles are scrutinized each day in the "first-of-its-kind," she said, Quality Assurance Center.

Employees there conduct quality audits and detailed technical measurements on more than 400 vehicle functions (such as heating, cooling, emissions, fit-andfinish), and houses a material

chemist, Graham said.

We're confident the 2015 Chrysler 200 will make a strong first impression with customers,' said Doug Betts, Chrysler's senior vice president of Quality.

"The all-new sedan benefits from a significantly enhanced quality process at the plant

**CONTINUED ON PAGE 2** 



The 2015 CTS-V Coupe's limited edition

## Cadillac Plans to Build 2015 Limited Edition CTS-V Coupe

Cadillac soon will start production of a limited, special-edition 2015 CTS-V Coupe, marking the last chapter of the current model before the next generation of the V-Series debuts next year.

The 2015 CTS-V Coupe will consist of 500 limited-edition cars available during the second half of 2014, according to GM spokesperson Brian Corbett.

"The V-Series continues to elevate Cadillac, providing an exclusive family of high-performance luxury models that attract a new audience of elite and passionate buyers," said Uwe Ellinghaus, chief marketing officer, Global

Cadillac.

The special edition CTS-V Coupe shares the high-performance technology of its predecessors built from 2010-14 - including Cadillac's Magnetic Ride Control, Brembo brakes and 556horsepower supercharged V8 engine, said Corbett.

The CTS-V Coupe is the most "dramatic model in the V-Series range of high-performance luxury models, blending a personal 2+2 layout with a drivetrain vetted on Germany's Nürburgring track," Ellinghaus said.

**CONTINUED ON PAGE 3** 



SHAP employees inspect Chrysler 200 as it makes its way along the body shop conveyor system.

## **TARDEC Opens New Lab for Ground Vehicles**

Army's ground combat vehicles – as well as help outside firms who produce ground vehicles – a new 4,500-square-foot laboratory opened last week at the U.S. Army Tank Automotive Research, Development and Engineering Center (TARDEC).

Five state-of-the-art testing rigs TARDEC's Physical Simulation form the new Vehicle Characteritrack widths up to 155 inches. zation Laboratory (VCL)

other ground vehicle developers to accurately quantify systemlevel vehicle characteristics, Huffman said, adding that the measurement of these properties is critical to the understanding and continued adaptation, modernization and development of Department of Defense (DoD) ground vehicle fleets.

TARDEC leaders and key stakeholders gathered at an open house to celebrate the opening of the new Vehicle Characterization Laboratory (VCL) last week.

"We have had industry partners come in to leverage our previous capability because it was one-of-a-kind in the world," TARDEC Director Dr. Paul Rogers

"We are now dealing with larg-

this expanded capability now allows us to deal with the characterization of those very, very large systems."

TARDEC researchers, Huffman said, are now taking full advantage of the VCL's five key testing capabilities:

• Vehicle Inertia Parameter have been consolidated under Evaluation Rig (VIPER) II, which one roof in the expansion of allows for system-level mass properties for vehicles weighing and Test (PS&T) Directorate to up to 100,000 pounds and with

 Suspension Parameter Iden-The VCL allows TARDEC and tification Evaluation Rig (SPIdER)

To improve the quality of the er systems, heavier systems, and to facilitate system-level suspension properties for vehicles weighing up to 100,000 lbs and with track widths up to 110 inch-

> Quarter-Car/Shock-Test Machine to test for both durability and performance characteristic modeling on all types of dampener systems.

• Tire/Roadwheel Test Machine tests for both durability and performance testing of tires, run-flats and roadwheel systems.

 Walk-In Environmental

**CONTINUED ON PAGE 4** 



Dr. Brudnak, left, and Dr. Singh speak to stakeholders at open house.



Lawrence Tech's Formula Hybrid racing vehicle in speedway turn

## LTU Students Finish Strong In Annual Hybrid Race

Lawrence Technological Uni- Hybrid Drive Class for vehicles versity's student team overcame a series of mishaps to finish second for the second year in a row in the Hybrid Drive Class of the annual Formula Hybrid International Competition in late April.

At the New Hampshire Motor Speedway in Loudon, N.H., LTU finished first in the Autocross race and second in Endurance

The LTU team scored 253.63 points, just eight behind the University of Idaho in the 12-team

that can run on both gasoline and electricity.

Dartmouth College won the seven-team Electric Drive Class.

Lawrence Tech could have overtaken Idaho with two more laps in the Endurance race, but fell short when the spokes on the right rear wheel broke after 16 laps, putting the LTU vehicle out of commission.

The team also missed a chance

**CONTINUED ON PAGE 4** 

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## **Auto Production** Looks to Grow by Millions by 2021

Global automobile production will increase by 21 million units by 2021, and has grown by 25 million units since 2009 as the industry continues to recover from the impact of the global economic recession, according to a forecast by IHS Automotive.

China will dominate, according to IHS, but there is a big upside attached to the North American industry as it attracts foreign investment, and in the European industry as its domestic markets climb back. Japanese and South Korean production will decline as local OEMs focus their efforts overseas.

Declining vehicle demand in Russia and Turkey will limit European production growth to one percent this year, according to IHS Automotive. However, from 2015 to 2017 European output is expected to increase by four percent per year, led by the recovery of domestic demand and sustainable increase in exports, primarily to the U.S. and China.

While it currently consumes 70 percent of European production, Western European demand will contribute only 50 percent of production growth expected by

Of this share, more than a half will come from Spain and Italy as they recover from losses from the years of recession.

### It's Quality All the Way for Chrysler 200s at SHAP **CONTINUED FROM PAGE 1**

that's part of our commitment to World Class Manufacturing. Quality and customer satisfaction are part of everyone's job.'

About one-and-a-half years ago, team leaders at SHAP started analyzing and planning how they would build the all-new Chrysler 200, Betts said. SHAP employees identified and implemented approximately 3,500 quality controls into the assembly process before the first customer vehicles were built.

"The goal is to design each workstation so it's impossible to make a mistake," Betts said. "The best expert on how to errorproof a specific assembly job is the person who does it every day - that's why it's so important to have all workers engaged in World Class Manufacturing.'

While the primary objective is to prevent issues from occurring in the first place, the plant has increased the number of dedicated quality inspectors from 22 to 50 as an extra layer of protection for customers, Betts said.

The all-new body and paint shops make SHAP one of the most versatile and flexible facilities within Chrysler, he said, significantly enhancing the quality and consistency of each new car.

Like other Chrysler assembly plants, SHAP also constructed an advanced metrology center in preparation for the new vehicle launch, Betts said.

"The metrology center is a high-tech laboratory with a clean room environment that allows engineers to find the root cause of any build variations - even when components appear perfect to the naked eye," Betts said.

"The lab uses a complex set of fixtures, which mimic the body shop's process, plus laser scanners and blue light fixtures to measure and create 3-D digital models.

"All of these tools are used to find and resolve any fit-andfinish issues before customer vehicles are built.

"The attention to detail and quality controls at the plant represent the final steps in a quality process that begins with the in-

### ception of each vehicle program at Chrysler Group."

The Chrysler team conducts extensive research with current customers - and competitors' customers - to set the vehicle targets for things such as performance, safety, fuel economy

and quality, Betts said. The team members include the company's Perceived Quality Team that works with designers, engineers and suppliers to enhance the fit-and-finish, surface quality, material options and even the sound quality of moveable parts like doors and storage

Customers make judgments on a vehicle's quality the first time they see and touch a car, said Betts, whether it's at an auto show, dealership or neighbor's driveway. The Perceived Quality Team is tasked with making sure customers receive a strong first impression on the quality of the

In final preparations for the

market launch, a development fleet of 200 sedans underwent testing day and night, on all kinds of road surfaces, at high and low altitudes and through blizzard conditions, as well as dry, desert heat, Betts said.

All that testing adds up to more than 17 million validation miles, including tests done in Chrysler labs, at the proving grounds and on public roads.

Some of the most punishing tests take place inside the Chrysler Technology Center on the Road Test Simulator (RTS). The simulator recreates the abuse vehicles endure at the hands of a 95th percentile customer - meaning a customer who drives the vehicle in more severe conditions than 95 percent of all drivers, Betts said.

The RTS recreates a wide range of on-road and off-road driving surfaces and puts a lifetime of wear-and-tear on a vehicle in one month's time.

Continually improving its test

methods, Chrysler officials made sure the 200 is one of the first Chrysler Group vehicles to be evaluated on the newly built Lateral Load Test Track at the au-Chelsea tomaker's Proving Grounds, Betts said.

The Lateral Load Test Track recreates the type of suspension stresses that a vehicle gets after years of hard driving on twisty roads that are more common in Europe.

"To validate the 200's durability, development vehicles were run through the new track approximately 40,000 times, which simulates millions of rigorous miles and contributes to excellent long-term ride and handling characteristics," Betts said.

The 2015 Chrysler 200 comes with a five-year/100,000-mile limited powertrain warranty and roadside assistance, as well as three-year/36,000-mile bumperto-bumper coverage. Chrysler began shipping the 200 to dealerships the week of May 15.

## GM Airbag Difficulties Raise Questions

(EDITOR'S NOTE: Following is an analysis by Associated Press automotive writers.)

DETROIT (AP) - GM's recall of 2.6 million small cars is a reminder that air bags may not always deploy when expected.

Q. GM says 13 people died in crashes involving older-model small cars where the ignition switches fell out of the "run" position and stalled the engine. In each of those crashes, the air bags failed to deploy. Why?

A. GM says the air bags were programmed to detect a crash and fire for up to 150 milliseconds after the power to the vehicle was cut off. If the engine had stalled but the ignition was still in the "run" position, the air bags would have worked for much longer. But they also may not have worked because air bags are designed not to deploy in certain situations.

#### Q. What are some reasons air bags might not go off?

**A.** Air bags deploy at a speed of 150 miles per hour, so they can help protect passengers in less than a second after the car detects a crash. But that force could be harmful to children or small adults or people who aren't correctly seated in the car. If the car's computer detects that the force of the bags could harm passengers, they won't go off.

Q. Do all air bags work like GM's did?

A. No. Newer GM vehicles have

more reserve energy, so the air bags would work for slightly longer - but still less than a second – even if the ignition was off. But all automakers' air bags are programmed differently, and there's no common time frame in which the air bags must fire. The government says it's talking to automakers to find out how other companies' air bags would work if the ignitions inadvertently turned off while driving.

#### O. Does the government have any requirements for when air bags must work?

A. No. The government only requires air bags to meet certain levels of protection. But the GM recalls may prompt officials to consider new air bag standards.

## Chrysler 1Q Net Revenue Up 23 Percent from 2013

\$690 million for the first quarter of 2014, reflecting the unfavorable effects of "two significant infrequent items," said Chrysler spokesperson Shawn Morgan.

Excluding these infrequent items, Adjusted Net Income for the first quarter was \$486 million, up from \$166 million a year

Infrequent items of \$1.2 billion in the first quarter included a \$504 million non-cash loss on amortization costs due to new extinguishment of debt related to the prepayment of the UAW Retiree Medical Benefits Trust Note (VEBA Trust Note), Morgan

It also included a \$672 million charge for commitments associated with the January memorandum of understanding (MOU) signed with the UAW in which the union made commitments to continue to support Chrysler's World Class Manufacturing (WCM) programs and actively assist in the achievement of the automaker's long-term business

Net revenue was \$19 billion for the quarter, up 23 percent from \$15.4 billion in the prior-year period, primarily driven by an increase in vehicle shipments, including Ram pickup trucks and the all-new Jeep Cherokee, Morgan said.

Modified Operating Profit was \$586 million in the first quarter,

Chrysler recorded a net loss of or 3.1 percent of net revenue, up from \$435 million reported in the prior-vear period.

> The 35 percent increase was primarily due to higher shipments and improved mix. Morgan said, partially offset by increased vehicle costs due to things like:

- · vehicle content enhancements:
- higher advertising costs;
- higher depreciation and product launches;
- · foreign exchange effects, including the devaluation of the Venezuelan bolivar, which accounted for a charge of \$129 million in the first quarter of 2014 compared with a devaluation charge of \$78 million in the first quarter of 2013.

Morgan said worldwide vehicle shipments were 668,000 for the quarter, up 16 percent from 574,000 a year ago.

This translated into worldwide vehicle sales for the first quarter of 621,000, up 10 percent from a year ago, Morgan said. These numbers were driven primarily by a 19 percent increase in U.S. retail sales.

Overall U.S. market share, Morgan said, grew to 12.5 percent for the first quarter, compared with 11.4 percent a year ago; market share in Canada was 16.6 percent for the quarter, up from 16 percent a year ago.



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"FIRST IN THE HEART OF DETROIT SINCE 1933" PAGE 3 MAY 19, 2014

## **Autopalooza Announces Summer Lineup Celebrating Detroit's Automotive Culture**

by Jim Stickford

Autopalooza, an annual celebration of Southeast Michigan's automotive heritage, offers something for just about every kind of car lover.

This year's Autopalooza events were announced last week at a press conference held at the Detroit Historical Museum.

The kickoff event is the Chevrolet Detroit Belle Isle Grand Prix May 30-June 1 at the 2.3-mile Raceway at Belle Isle Park's street circuit.

For the second consecutive year, the Grand Prix will host two Verizon IndyCar Series races in one action-packed weekend – the Chevrolet Indy Dual in Detroit presented by Quicken Loans. One race will be held Saturday and one Sunday, said Grand Prix spokesperson Merrill Cain.

The Chevrolet Detroit Belle Isle Grand Prix will also include the TUDOR United SportsCar Championship, the Pirelli World Challenge Series and, new for 2014, the SPEED Energy Super Truck

Autopalooza promotes the region's rich automotive heritage to auto enthusiasts and visitors alike and has a significant economic impact on metro Detroit, said Autopalooza spokesman Brian Yopp.

The Detroit Metro Convention & Visitors Bureau (DMCVB) has

Detroit Belle Isle Grand Prix set

to open soon. Grand Prix officials

are still accepting applications

for volunteers interested in join-

ing the Detroit Grand Prix Association (DGPA) for the upcoming

May 30-June 1 event, said race

The DGPA needs about 100 vol-

unteers for the event, Cain said,

with the biggest demand being circuit marshals. Volunteers in

this department will be posi-

tioned closest to the race circuit.

as they will work in teams to help

control and assist with pedestri-

and various support vehicles. A

typical day begins around 6:30

a.m. and will last until 7 p.m.,

with volunteers divided into two

overlapping shifts of approximately seven-and-a-half hours

each throughout race weekend.

The Chevrolet Detroit Belle

Isle Grand Prix requires a com-

mitment to work one shift per

day of the race weekend, atten-

dance at a volunteer training session and a membership fee of \$15

fee is returned many times over

in the form of member benefits, including the official volunteer uniform, hat and race weekend

credential, lunch each day of the

race weekend and a DGPA patch,

lapel pin and certificate of appre-

ciation after completion," Cain

appreciation party after the Grand Prix for all members to

have some fun and trade stories

"The DGPA also hosts a famous

'The value of this membership

to join the DGPA, Cain said.

spokesperson Merrill Cain.

**Detroit Grand Prix Seeks** 

Helpers for Race Weekend

With the gates of the Chevrolet with friends new and old."

enue generated from the Grand Prix, Concours d'Elegance and the Woodward Dream Cruise together may exceed \$110 million.

Michael O'Callaghan, executive vice president of the DMCVB, said at the announcement of this summer's Autopalooza schedule that the whole point behind the Autopalooza celebrations is to bring visitors to Southeast Michi-

"People coming to share in our automotive heritage has an impact on the regional economy," O'Callaghan said. "That's what Autopalooza does."

His figures show that in 2013 about 14.1 million visitors from outside the Detroit region visited

"We have studied the Concours d' Elegance, an event that takes place at the Inn at St. Johns in Plymouth," O'Callaghan said. "This is a one-day event that attracts affluent adults. Twenty-five percent of the visitors to this event are from outside southeast Michigan, and, on average, those visitors spend more than \$100 per person per day in our community during one weekend in

More importantly, O'Callaghan continued, is that "spending in the region compliments of the automotive culture is equal to \$348 million annually, and I haven't included the North American International Auto calculated that the annual rev- Show, which reports an eco-

With a target of approximately

1,100 volunteers in place for race

weekend, the DGPA is getting

2014 Chevrolet Detroit Belle Isle

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con at hdeacon@detroitgp.com

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close to reaching its goal.

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nomic impact of \$400 million."

GM Vice President of Performance Vehicles & Motor Sports Jim Campbell said Chevrolet has had a long tradition in racing, making one of the Autopalooza events a race at the Michigan International Speedway - a great way to promote the region.

Campbell also said that GM really got its start in Flint and that Chevy and the Woodward Dream Cruise go together handin-hand. This summer's Autopalooza events celebrate Michigan's auto culture and GM is proud to play a part in supporting it, he said.

"There is no place in the world which celebrates its auto culture quite like we do in this region, where the automobile heritage is legendary," said Shawn Pomaville, managing director, Motor-Cities National Heritage Area. "Whether it is the beauty of automotive design at our car shows, the power and ingenuity of our races or the classics cruising Woodward, Gratiot, Hines, Fort and Saginaw St., we are proud to offer the very best in auto heritage tourism all summer long."

Other Autopalooza major



GM vice president Jim Campbell in front of automotive mural

- Eastpointe Cruise, June 14 in Macomb Coun-
- Quicken Loans 400 NASCAR Weekend, June 13-15 in Brooklyn; • Motor Muster, June 14-15 in
- EyesOn Design, June 15 in
- Grosse Pointe Shores; • Sloan Museum Auto Fair,
- June 28-29 in Flint; • Cruisin' Downriver, June 28
- in southern Wayne County;
- RM Auction Vintage Motor
- Cars, July 26 in Plymouth; • Concours d'Elegance of 21 in Ypsilanti.

Gratiot America, July 27 in Plymouth;

- Clinton Township Gratiot Cruise, Aug. 3 in Macomb Coun-
- Back to the Bricks Weekend, Aug. 12-16 in Flint:
- Woodward Dream Cruise, Aug. 16 in Oakland County;
- Pure Michigan 400 NASCAR Weekend, Aug. 15-17 in Brooklyn; • Cruisin' Hines, Aug. 24 in
- Old Car Festival, Sept. 6-7 in Dearborn;

Westland:

• The Orphan Car Show, Sept.

## Cadillac to Build Limited Edition 2015 CTS

CONTINUED FROM PAGE 1

The 2015 special edition version features an exclusive Ebony interior with red contrast stitching, Recaro performance seats, metal pedals, Midnight Sapele wood trim, microfiber suedewrapped steering wheel and shift knob, dark-finish V grille, satin graphite wheels and red brake calipers.

The 500 special-edition CTS-V Coupes will be produced this summer, Corbett said, adding that pricing begins at \$72,195, including a \$995 destination charge and \$1,300 gas guzzler tax, and are available for immediate order

Exterior color options include Crystal White, Black Diamond (\$995) and Phantom Gray. Buyers can opt for either a six-speed manual or automatic transmission. A sunroof also is available (\$700).

The next-generation V-Series models are in development and will premiere next year, Corbett said.

"This is kind of a farewell to the current generation of the V-Series," Corbett said. "Next year, we're going to come back with a V-Series that is even stronger.'

"The special edition is a step-

ping stone to the next-generation V-Series, which will move to the next level with more dynamic design and technical sophistication," Ellinghaus said.

"Ultimately," Corbett said, "the thinking behind the V-Series is that it's our performance car pinnacle.

"After all, it comes with 500plus horsepower and it has really reestablished Cadillac's credentials in the performance market.

"It's for people who are interested in vehicles like the BMW M-5 series or the AMG line by Mercedes.'



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## **TARDEC Opens New Lab for Ground Vehicles**

CONTINUED FROM PAGE 1

Chamber to conduct climatic testing coupled and/or de-coupled from the Tire or Roadwheel Test Machine.

The VCL will facilitate each capability by providing dedicated space for the increased utilization rate, efficiency and overall operational safety essential to TARDEC's mission to be the DoD leader for ground vehicle technology integration, Rogers said.

"Our mission is to help our partners do their jobs faster, better and more efficiently," said Dr. Mark Brudnak, TARDEC associate director of Physical Simulation and Test. "Our goal is to help our customers understand their systems as early as possible."

Dr. Brudnak and his associate, Dr. Amandeep Singh, of Analytics, described TARDEC's new Systems Optimization and Characterization capabilities at the open house.

TARDEC's open house provided industry stakeholders and other government agencies an opportunity to tour the VCL and see firsthand the unique capabilities the test equipment brings to



VCL test rigs can handle large vehicles weighing up to 100,000 pounds.

automotive/truck durability and performance testing.

"Recognize that this is about the ground vehicle at the system level and that is what makes this a unique facility," Rogers said.

"You can find a lot of component-level testing capacity in industry and academia and other government organizations, but the emphasis here is system optimization and system characterization."

Ultimately, Huffman said,

TARDEC is willing to work with private industry and academics by letting them use the VCO facility.

"Some automakers have used the lab," Huffman said. "It's pretty much the only place they can test their largest trucks.

"We are looking for partnerships that are mutually beneficial, and those interested in using the facility can contact TARDEC to see if working with us is the right fit."

## LTU Students Finish Strong in Hybrid Race

CONTINUED FROM PAGE 1

to pick up points in the Acceleration racing competition because the team had not yet resolved an electrical grounding problem that plagued most teams using the grounding system recommended by the event organizers.

"This is a great competition, and we love being part of it. This year, we came very close to taking it all," said LTU associate professor Rob Fletcher, the team's faculty.

The only two teams that competed in the Acceleration and Autocross races were first-place Dartmouth College, the event host, and University of Vermont.

LTU crossed the finish line first

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when it went up against those two teams in the Autocross competition, Fletcher said, and also finished ahead of them in the Endurance race, which was won by the University of Michigan.

Completing the Autocross race was the high point of the four-day competition for the LTU team, Fletcher said. But that was quickly followed by the low point when the team was disqualified on a technicality.

The judges had allowed LTU to run in the race with only preliminary approval in the electrical inspection, but another team filed a protest because the judges had failed to post an alteration of the race entry standards, as required by the competition rules.

The loss of 150 points for LTU allowed the University of Idaho to take first place in the Hybrid Drive Class without completing a single lap around the track.

The Formula Hybrid Competition sets a very high standard for racing, Fletcher said. Only five of the 21 teams in the two divisions answered the bell for the Endurance race finale. Yale University, which edged out LTU for first place in the Hybrid Drive Class last year, also failed to make it around the track and finished fourth this year.

"This is a very hard competition. Some teams that I talked to don't plan on coming back," Fletcher said. "But this is where I want our team to be. We want it to be tough. That is what makes it such a fantastic competition."

The wheel failure was symptomatic of the financial challenges LTU faces when competing against much larger universities, Fletcher said.

LTU was still using wheels salvaged from the 2010 racing vehicle because there were limited funds in the budget for new equipment. Because of the high stress and loading on equipment in a racing environment, it is suggested that racing teams use new wheels every year.

"Racing is expensive, and we appreciate our corporate sponsors and all those who contributed money and materials to our team," Fletcher said.

The LTU team that competed in New Hampshire, Pope said, included John Agrusa, Jim Cass, Joe Falzon, Matthew Haggard, Donald Henderson, Zach Ketner, Jared King, Matt Moyer, Eric Onan, Nicholas Pakledincz, Joe Polizzi, Adam Tallman, Ryan Tietz, Dan Victorson, and San Wong.

## 2015 Mustang Hits Drag Strip With Electronic Line-Lock

Not only is the 2015 Ford Mustang GT a beauty, it's got brains, said Ford spokesman Brian Cotter.

Ford engineers are leveraging state-of-the-art controls software technology to give Mustang customers an industry-first feature – electronic line-lock, Cotter said.

Ford Car Marketing Manager Steve Ling said, "Competition has been an integral part of the Ford Mustang lifestyle since its earliest days 50 years ago.

"We know our customers, and we wanted to provide a unique feature for those wishing to take full advantage of the increased capability offered by this new Mustang GT at the drag strip."

Mustang has run everything from rally to stock car racing, Cotter said, but with drag racing a particularly popular venue for grassroots competitors, electronic line-lock on every 2015 Ford Mustang GT should be a real benefit for customers who like to compete one-quarter-mile at a time.

"We're using advanced controls technology for the all-new Mustang to provide some of our most dedicated fans with an industry-first feature they can use when they go to the track," said Dave Pericak, Mustang chief engineer.

"With electronic line-lock, customers who drive their Mustangs to work all week and then compete on the weekends will appreciate not having to modify their brake systems to be able to do effective tire prep at the drag strip."

The flexibility of track apps, launch control and selectable drive modes makes it easy for Mustang drivers to get the right capabilities for any situation, Cotter said.

As one of the most accessible forms of motorsport, drag racing – in particular, bracket racing – has always been a great fit for the rear-wheel-drive Mustang, Cotter said.

Drag strips are often open during warm weather weekends for amateur competitors to bring out their factory stock or modified cars to run against the clock.

Consistency pays off in bracket racing, where competitors try to get as close as possible to their predicted quarter-mile times without going faster, Pericak said.

Electronic line-lock and launch control – also standard on Mustang GT with manual transmission – can help drivers achieve more consistent performance from run to run.

With the electronic line-lock fea-

ture enabled, Pericak said, when a driver releases the brake pedal, the hydraulic control unit for the stability control system will keep the front brakes locked while releasing the rear brakes.

When the Mustang is sitting in the burnout box of a drag strip, the driver can apply the accelerator to spin up the rear wheels to warm the tires for maximum grip. This can all be done without having to balance one foot on the brake and the other on the gas, or install a mechanical line-lock.

With the tires properly warmed up, drivers can pull up to the staging line, engage launch control, and get a perfect catapult as soon as the lights go green, Pericak said.

"Whether a customer wants to take weekend road trips, go road racing or compete in grassroots drag racing, we aim to maximize the driving experience for everyone," said Pericak.

"Mustang offers selectable drive modes for those who prefer to compete on road courses or in autocross events, so when we realized we could provide a really cool feature like electronic linelock that no one else offers, the decision was easy – 'Let's do it.'"

Electronic line-lock for 2015 Mustang GT is intended for use only on racetracks, Cotter said. "Racing the vehicle will void the warranty," he added.

## GM Agrees to Pay \$35M Fine in Ignition Recall

CONTINUED FROM PAGE 1

ability to identify and respond to safety issues.

"Among other efforts, GM has created a new group, the Global Product Integrity unit, to innovate our safety oversight; we are encouraging and empowering our employees to raise their hands to address safety concerns through our Speak Up for Safety initiative, and we have set new requirements for our engineers to attain Black Belt certification through Design for Six Sig-

The GM statement continued, "Having signed this agreement, GM now has its sights set on effectively serving customers and completing the ignition switch recall."

Barra said, "GM's ultimate goal is to create an exemplary process and produce the safest cars for our customers – they deserve no less."

The 2.6 million vehicles recalled in this case contained switch defects that have been linked to 13 deaths and 32 accidents.

Department of Transportation Secretary Anthony Foxx said GM knew of the defects but didn't report the problem.

Foxx said, "They had the information and told no one. What GM did was break the law."

The \$35 million fine was the single highest civil penalty ever paid as a result of a NHTSA investigation of violations stemming from a recall.

In addition, GM has agreed to take part in unprecedented oversight requirements.

GM was ordered to make significant and wide-ranging internal changes to its review of safety-related issues in the U.S., and to improve its ability to take into account the possible consequences of potential safety-related defects.

The Detroit automaker also will pay additional civil penalties for failing to respond on time to the agency's document demands during NHTSA's investiga-

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### Chrysler Donates Computer Tablets To United Way

Chrysler will donate 160 Samsung Galaxy Tab 3 10.1 - 16GB tablets to United Way of Southeastern Michigan (UWSEM) to help Detroit high school students become college- and career-ready.

Initially used May 6 by Fiat Chrysler Automobiles (FCA) to present the automaker's five-year plan, UWSEM will reload the tablets with financial planning and educational tools, said company spokesperson Kevin Frazier.

Subsequently, he said, the tablets will be given to collegebound juniors and seniors at high schools that are part of United Way's High School Turnaround Initiative. The tablets have a total retail value of more than \$52,000.

"Chrysler Group understands that help has no timeline - that there are people who are struggling and could use a 'hand up,' said Mauro Pino, vice president and head of Chrysler's NAFTA Manufacturing/World Class Manufacturing, and co-chair of Chrysler Group's United Way Campaign.

With all of us working together and supporting United Way in 'Advancing the Common Good,' we know that there are lives that we can help improve not only today but also in the future."

Guided by the belief that no child should go to a high school with less than a 60 percent chance of graduation, UWSEM set a goal in 2008 of turning around or shutting down 30 high schools in the region (among 2,000 nationwide) labeled "dropout factories" by 2018, Frazier said. UWSEM officials say these efforts will not succeed without community participation and ownership.

As a result, UWSEM is using its investment process to foster robust nonprofit, business and community partnerships that will advance evidenced-based solutions and practices in Detroit schools, Frazier said.

"We are so grateful to Chrysler for its donation of Samsung tablets for use by those students in our turnaround high schools who are preparing for college, said Michael J. Brennan, UWSEM president and CEO.

These tablets will be a crucial tool in assuring that our students are technologically savvy and primed for college-ready work."

Chrysler employees have a proud history of giving back to their community, Frazier said.

In the 2012-13 campaign, employees in the United States and Canada donated nearly \$6 million. And with additional funds raised through company-sponsored events, such as "Battle of the Brands II" hockey games with National Hockey League alumni and a corporate donation, a combined total of nearly \$7.2 million was contributed to UWSEM.

Chrysler CEO Sergio Marchionne kicked off that community-giving campaign with a symbolic torch-lighting ceremony at Detroit's Hart Plaza.

The United Way for Southeastern Michigan 2012-13 Communi-Giving Campaign raised \$35,121,006, surpassing its \$35 million goal, representing an increase of 11 percent from the previous campaign's total.

United Way for Southeastern Michigan mobilizes the caring power of Wayne, Oakland and Macomb counties to improve lives in measurable and lasting ways throughout the region, Frazier said.

The organization is led by a diverse group of volunteers from business, labor, government, human services, education and the community and provides opportunities to invest in the metropolitan Detroit community through its annual campaign.





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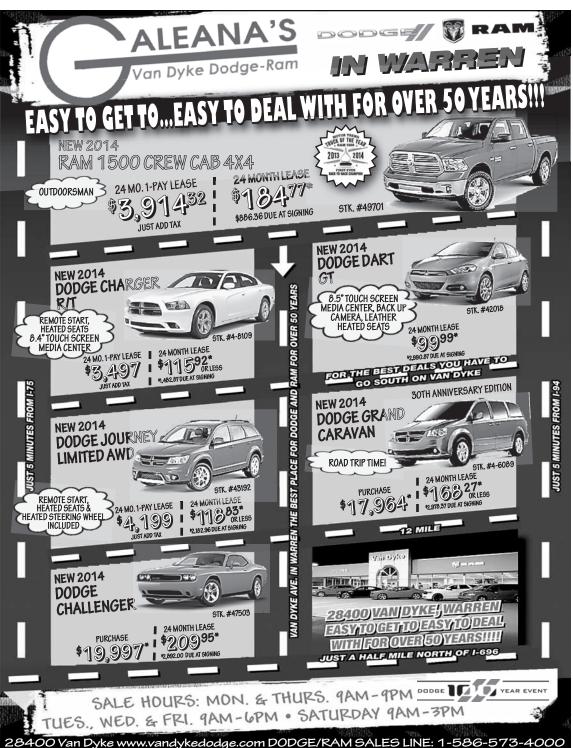


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## **Chrysler's Trenton Engine Earns WCM Bronze Award**

Chrysler's Trenton Engine Complex has been awarded Bronze status for its results in implementing World Class Manufacturing (WCM).

Trenton becomes the fifth North American facility to achieve the first WCM award milestone, said Chrysler spokesperson Jodi Tin-

The plant received the Bronze designation four years after adopting the operating system.

Chrysler awards the Bronze status after a facility earns at least 50 points in 10 technical and 10 managerial pillars. Points are awarded by demonstrating clear WCM know-how and competence through employee-conducted pillar presentations and a review of projects that have been expanded across the shop floor.

Trenton earned a score of 52.

"We are very proud of the dedication our Trenton employees have shown in accelerating the rate of improvement in their plant in order to achieve Bronze," said Mauro Pino, vice president and head of Chrysler's Manufacturing/WCM.

"Together with our UAW partners, Chrysler Group is demonstrating its commitment to making our manufacturing facilities among the best in the world."

Tinson said Chrysler does WCM audits at least once a year at its facilities around the world.

"These audits are to determine how these facilities are adhering to the WCM standards," Tinson said. "All the facilities know what the WCM standards are and some of them have different rates of implementation."

World Class Manufacturing is a methodology that focuses on reducing waste, increasing productivity, and improving quality and safety in a systematic and organized way, Tinson said.

WCM engages the workforce to provide and implement suggestions on how to improve their jobs and their plants.

WCM was first implemented by Fiat in 2006 and introduced to Chrysler Group as part of the alliance between the two companies in June 2009. Since that time, the automaker has saved more than \$1 billion in controlable manufacturing costs as a result of the implementation of WCM, Tinson said.

During an audit, zero to five points are awarded for each of the 10 technical pillars, which include safety, workplace organization, logistics and the environment, Tinson said, and for each of the 10 managerial pillars such as management commitment, clarity of objectives, allocation of people, motivation of operators and commitment of the organization. A score of 100 would indicate World Class.

Getting this hypothetical perfect score isn't easy, Tinson said. "WCM requires that you follow, for every pillar, seven extremely

well-detailed steps," Tinson said.
"Throughout the process of these steps, we recognize an evolution in how we approach problems. Initially, it's reactive. After an event has taken place, countermeasures are taken.'

Then, Tinson said, the next step is preventive. That's learning from the past, and implementing countermeasures to avoid a repeat. Finally, the last step is active. Countermeasures are taken on theoretical risk analysis. That's basically doing something to avoid a potential future problem that might not have yet come up.



2014 Chrysler Town & Country

## Texas Auto Writers Praise Chrysler, Dodge, SRT Brands

brands won several accolades this year," said Reid Bigland, this year at the Texas Auto Head of Chrysler's U.S. Sales. Roundup hosted by the Texas "We continue to improve our ve-Writers (TAWA).

After a day of extensive driving at the Texas Motor Speedway in Fort Worth, Texas, journalists voted for their favorite vehicles and the Chrysler Group secured six of the possible 19 awards, the most of any manufacturer at the event, said Chrysler spokesperson Kimberly Shults.

Chrysler Group vehicles receiving awards at the Texas Auto Roundup were:

- Dodge Brand Compact Car
- of Texas: 2014 Dodge Dart; • SRT Brand – Performance Utility Vehicle of Texas: 2014 Jeep Grand Cherokee SRT;
- Chrysler Brand Mid-size Sedan of Texas: 2015 Chrysler
- Minivan of Texas: 2014 Town
- & Country; • Full-size Sedan of Texas:
- 2014 Chrysler 300; • Family Car of Texas: 2014
- Town & Country.

"These awards from TAWA are

Chrysler, Dodge and SRT a testament to our hard work hicle lineup and we're pleased that TAWA gave our brands their vote of confidence once again."

> "Our members were clearly impressed with several Chrysler Group products at the Texas Auto Roundup this said Michael Marrs, year," TAWA president.

"This event allows us to experience manufacturers' products in a firsthand comparison. The design, capability and versatility of Chrysler Group products really stood out among the competi-

TAWA members gather every spring to evaluate all that's new in passenger cars, minivans and performance SUVs, Shults said.

The event gives Texas journalists the opportunity to drive nearly every new car on the market, ranging from subcompact vehicles to supercars (more than 450 horsepower).

The 47 journalists attending drove 50 vehicles from various manufacturers at the event.

## GM Invests \$50M in Lordstown Assembly As UAW Locals Buy 1 Millionth Cruze

General Motors is investing \$50 million for a new flexible Trim Shop and upgrades to the Press Room at the Lordstown (Ohio) Complex for the next-generation Chevrolet Cruze compact sedan.

"This investment will enhance our customer responsiveness while providing our team with the tools and processes needed to be the best at building the next-generation Cruze," said Lordstown Plant Manager Bob Parcell.

Some construction work has begun at the complex, said plant spokesperson Thomas Mock. Chevrolet will announce timing of the next-generation Cruze later this year.

Separately, UAW Locals 1112 and 1714 announced they are purchasing the 1 millionth Cruze, which was built at Lordstown on April 10, Mock said.

The milestone Cruze, a red LT model with the RS package, was raffled to a Lordstown employee with all ticket proceeds donated to local charities.

"We want to thank our team members at Lordstown for their dedication and commitment to Cruze and we want to thank our million-plus customers across North America and our Chevrolet dealers for their support and enthusiasm for this great car," said UAW Local 1112 President Glenn Johnson and UAW Local 1714 President Robert Morales in a joint statement.

The Chevrolet Cruze for North America was launched at Lordstown Sept. 8, 2010, Mock

Since then, Cruze has become GM's best-selling car and, according to sales figures, was the seventh-best-selling car in the



Lordstown employee Jan Dowell at the plant with one millionth Cruze.

U.S. through March of this year.

In 2013, Lordstown launched the all-new Cruze Clean Turbo Diesel, Mock said, which, he added, "offers the best highway mileage of any gas only or diesel engine in America and was recently named by diesel enthusi-

asts as the Diesel Car of the Year for 2013."

Since 2009, GM has invested approximately \$250 million at Lordstown, Mock said.

The complex has built more than 15 million vehicles since opening in April 1966.

## Sinkhole Attracts Visitors

LOUISVILLE, Ky. (AP) – The National Corvette Museum is considering keeping a sinkhole that swallowed eight Corvettes as an attraction because of the additional attendance the sinkhole has generated.

Museum spokeswoman Katie Frassinelli recently told *The Courier-Journal* in an email that attendance at the museum located in Bowling Green, Ky., has risen considerably – by 56 percent in March and 48 percent last month after the 40-foot-wide-by-

60-foot-deep hole formed Feb. 12.

"The sinkhole is a part of not only the museum's history but also Corvette history," she said. "We are in the business to preserve the history of the car – which now includes a sinkhole."

Current visitors can see the sinkhole and museum officials are considering doing things such as installing a glass floor or bridge above the hole. Frassinelli said stairs that would take visitors into the hole are also being considered.







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## Lincoln Enters China Market, Cadillac Builds Factory There

BEIJING (AP) – Like their massmarket counterparts, luxury automakers are looking to China to drive future growth and are investing heavily to gain or expand a foothold in its market.

This year, while overall market growth is expected to cool to 8 to 10 percent from last year's 15.7 percent, analyst Zhu Bin of LMC Automotive said luxury sales growth might accelerate from 21 percent to 24 percent.

New brands, including Ford Motor Co.'s Lincoln, are entering the market, adding to intense competition. Manufacturers are shifting production to China, allowing them to cut costs and compete on price as well as

GM is building a Cadillac factory in Shanghai and hopes to double the brand's annual sales to 100,000 by the end of 2015.

Cadillacs sold in China are designed for local tastes with more attention to rear-seat comfort, said Joseph Y.H. Liu, a GM China executive.

"Stereo control and curtains for the rear seat are a must," he said. "So is the 2.0 turbo engine. The Chinese consumers expect that."

Lincoln wants to reinvent itself in China, shedding its staid image at home and targeting younger buyers.

The company promises personalized service in dealerships equipped with waterfalls - a symbol of prosperity in China – and a custom-designed scent. Buyers will be able to customize details of any Lincoln models, including the compact MKC sport utility vehicle aimed at younger driv-

"As far as what makes us different, it will come down to the hospitality-oriented experience that customers will get, plus the personalized product," James D. Farley, Jr., a Ford executive in charge of Lincoln's global marketing.

Lincoln is a latecomer to China but Farley said that could help make it feel more exclusive in the German-dominated market.

"When you're selling premiumness, and you see the product everywhere, and that happens because you only have three brands, there are opportunities for challenger brands," said Far-

What Lincoln learns in China about customer service, as well as its bigger manufacturing volume, could help its North American operations, according to Far-

"That competency around personalized service is something we absolutely will learn here," he

Sales in China will give Lincoln "the ability to build scale and to invest engineering for more product that then we can sell in more markets, including North America."

So far, the market appears to be immune to an official anti-corruption and austerity campaign launched by President Xi Jinping that has cut into sales of highend liquor and other luxury goods.

Xi, who took office in early 2013, has demanded Communist Party and government officials cut waste.

Senior officials have been investigated on corruption charges. Their relatives and business associates also have been targeted, making flamboyant displays of wealth politically dan-

## **Energy Reduction Nets Chrysler Plant** \$1.3 Million Rebate from Gas Provider

sembly Plant had 1.3 million reasons to celebrate on Earth Day.

That was the amount of the rebate check it received recently from Nicor Gas, the plant's natural gas provider.

The check was presented during a ceremony at the plant with local leaders, employees and executives of both companies.

The amount represented the savings achieved as a result of the implementation of three natural gas-saving projects, said Chrysler spokesperson Mike Palese. It is the largest cumulative incentive ever awarded by the Nicor Gas Energy Efficiency Program.

Chrysler Group's Head of Assembly Operations Zachary Leroux and Belvidere Plant Manager Eric Schimmel accepted the check on behalf of Chrysler.

"As one of the largest energy consumers in the region, Chrysler Group is an active participant in the Nicor Gas Energy Efficiency Program," said Leroux, "which provides meaningful incentives for business to reduce gas consumption through investments in new technologies and systems.

"This program, coupled with our World Class Manufacturing operating system, has resulted in creative, energy-saving solutions that will pay dividends for years to come.

Beth Reese, Nicor Gas president, said, "We are pleased to recognize Chrysler Group for its commitment to saving energy and money through the Nicor Gas Energy Efficiency Program.

"We applaud their efforts, which have earned a \$1.3 million return and also are helping to bring our program closer to reaching its energy goals."

The Nicor Gas Energy Efficien-

Chrysler's Belvidere (Ill.) As- cy Program offers financial rebates to customers who install qualifying natural gas-saving products, including furnaces, boilers, water heaters and steam traps. The program also offers financial rebates to pre-approved customers who develop a customized natural gas reduction project for their businesses.

Implemented in Belvidere's three energy conservation projects will save nearly 2.5 million therms annually or the equivalent of the energy used in 1,000 homes for one year, Palese said.

They include cascade air, which involves reusing heated air in more than one location in the plant, Palese said.

"In simple terms, rather than using natural gas to continually heat cold outside air to a comfortable working temperature. we supplement cold outside air with warm plant air, using less natural gas for heating," Palese said. "The rebate for this project was \$400,000."

The installation of 34 variable frequency drive motors on direct gas-fired air handling units also helped get the rebate, Palese said. In order to maintain a working temperature inside the plant. all air supply motors would either be completely off or operating at 100 percent capacity. This project, generating a \$323,000 rebate, enables proportional speeds to reduce the volume of heated air supplied to the plant.

Chrysler used the \$500,000 incentive from Nicor to defray costs on a \$1.3 million project to upgrade hardware and install new software to connect and control 25 air supply units and numerous general and process exhaust fans as part of an improved energy management system, Palese said.

## Rearview Cameras Will be Standard on 2015 Buicks

GM has just made it a little safer for Buick owners to drive. said Buick spokesperson Nick Richards.

Safety and technology top the lists of important considerations Buick customers, for Richards.

He added that that's why every 2015 Buick model will come standard with a rearview

In the fall of 2013, the University of Michigan's Transportation Research Institute conducted a study that found vehicles with rear backup cameras have a significantly reduced rate of backing crashes based on its analysis of crash data, Richards

Ninety-seven percent of the backing crashes in the university's study involved the backingup vehicle striking another vehicle, which corresponds with U.S. crash data analyses.

"Rear backup cameras have become like power windows and conditioning," said Karl Brauer, senior analyst for Kelley Blue Book.

every car, yet, it's rare to operate a new vehicle without them. The increased confidence these cameras provide make them a musthave feature.'

Richards said that Buick's efforts to promote safety go beyond the one step of adding rearview cameras.

The 2015 Buick lineup - including the Verano, LaCrosse, Enclave, Encore with all-wheel drive, and Regal (without optional rear seat-mounted side-impact air bags) - has received a 5-star Overall Vehicle Score for safety in the New Car Assessment Program that's administered by

4

A LITTLE...SAVE

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A LOT!

A LITTLE...SAVE

DRIVE



Camera provides rearview eyes.

the National Highway Traffic Safety Administration (NHTSA).

To help prevent a collision, each of Buick's 2015 models are also available with active safety technologies such as Forward Collision Alert, Side Blind Zone Alert, Lane Departure Warning and Rear Cross Traffic Alert, Richards said.

Additionally, he said, every Buick comes with OnStar Automatic Crash Response, standard for six months.

In a collision, a specially trained Emergency Advisor is connected to the vehicle the moment a crash is detected.

If the driver requests help, or 'While they're not standard on can't answer, emergency responders are sent to the precise GPS location.

"We know our customers are very safety-conscious," said Duncan Aldred, U.S. vice president of Buick and GMC.

"The current Buick lineup holds many safety accolades, but we are always pushing to be at the forefront with our vehicles being among the safest available.'

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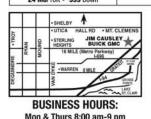
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## Ford Invests \$1.1 Billion for Transit Van

ployees and a \$1.1 billion investrecently rolled off the line at the Kansas City Assembly plant, as Ford aims to strengthen its leadership in the commercial vehicle segment.

On sale this summer, Ford's next-generation full-size van family will provide tradespeople and businesses with increased capability and innovative new configurations in the growing commercial vehicle market, said Ford spokesman Mike Levine.

"It's another example of the Dearborn automaker's One Ford strategy to serve customers with world-class vehicles leveraging global assets, including common platforms," Levine said. The move brings new jobs to the greater Kansas City area.

"Producing our Built Ford Tough Transit lineup in Kansas City is a big deal for the local community," said Joe Hinrichs, Ford president of The Americas.

'Our investment in Kansas City Assembly Plant for Transit production is about delivering world-class commercial vans for a new generation of commercial

Supported by 2,000 new em- customers - while building on our decades of leadership in the ment, the new Ford Transit van market and supporting new jobs throughout the region and across America.'

> The 2,000 new Ford employees at Kansas City Assembly Plant puts the company more than 75 percent toward its goal of creating 12,000 hourly jobs in the United States by 2015, Hinrichs said. In 2014 alone, Ford will hire nearly 5,000 new hourly and salaried employees in the U.S. to support overall growth.

> As the first vehicle rolled off the line, Missouri Gov. Jay Nixon said, "Today represents much more than a next-generation vehicle rolling off an American assembly line for the first time. It represents another huge milestone for Missouri as we continue to lead the rebirth of the American auto industry.'

> "With the all-new Transit. Ford's historic investment in Missouri has brought another outstanding vehicle to consumers and thousands of good manufacturing jobs to our state. Today, the 'Made in Missouri' brand is back and stronger than ever.'

Transit is born from nearly a

century of experience delivering two distinct full-size vans to customers in America, Europe and other global markets, Hinrichs

In the U.S., Transit eventually will replace America's best-selling van for 35 years, the E-Series

E-Series vans and wagons still will be available and sold side-byside with Transit into the 2014 calendar year, providing a seamless transition for Ford customers. Additionally, the E-Series cutaway and stripped chassis will continue to be built and sold through most of the rest of the decade.

Transit was introduced in Europe in 1965 and has been the best-selling commercial van in the UK for 49 years. Transit is currently sold in 118 markets on six continents, Levine said.

Transit will be available in three body lengths, two wheelbases on van and wagon and three roof heights; in van, wagon, chassis cab and cutaway body styles; and in XL and XLT trim levels, offering more choices than ever from a Ford commercial van vehicle, Levine said.



From left, Jarvis Ford and Joe Creason work together on a Transit body.

In addition to Transit, Kansas City Assembly Plant produces Regular, Super and Crew Cab versions of Ford F-150. The plant employs 4,878 hourly workers on three crews. The third crew was added in 2013.

Ford has retooled and expanded the facility for Transit production and to support surging customer demand for the F-150 pickup truck, Hinrichs said.

Expansion projects include the addition of a 437,000-square-foot stamping facility and a 78,000square-foot paint shop that will employ the three-wet and twowet monocoat paint processes. Both processes are more environmentally friendly and take less time than conventional paint

## Ford F-150's 3.5L EcoBoost Leads Charge of V6 Engines

Ford recently marked a major the engine does it all on regular 500,000th 3.5-liter V6 EcoBoostequipped F-150.

Just more than three years after its introduction, popularity of Ford's 3.5-liter EcoBoost engine continues to grow among F-150 customers as its cumulative fuel savings continue to increase, said Ford spokesperson Mike Levine.

In the past 38 months, F-150 EcoBoost owners collectively have saved an estimated 56.8 million gallons of gas on an annual basis, Levine said. According to the U.S. Environmental Protection Agency, that's equal to:

- The annual greenhouse gas impact of 413,895 acres of U.S.
- A city in which 70,000 homes
- go without electricity for a year; • 6,685 tanker trucks' worth of
- gasoline:
- Installing 139 wind turbines. For the fourth month in a row, more than 57 percent of retail sales of Ford F-150 light-duty trucks are powered by V6 engines - reversing 47 years of V8 engine dominance in the industry, Levine said. More than 45 percent of these sales are trucks equipped with Ford's 3.5-liter EcoBoost.

Over the last three years, Levine said, retail registrations of light-duty pickups powered by V6 engines grew more than 600 percent, with F-150 directly responsible for 91 percent of that growth, based on Ford analysis of Polk retail registration data.

"We expect those numbers to hold for the rest of the year," said Doug Scott, Ford Truck Group Marketing manager. "It really is amazing when you consider we are doing that with just two V6 engine choices - the 3.5-liter Eco-Boost and the 3.5-liter Ti-VCT en-

"When we come out with the new 2015 F-150, we will offer three different V6 engines, so there is potential for further growth.'

The segment-exclusive technologies built into every Eco-Boost engine, including turbocharging and direct fuel injection, are particularly relevant for truck customers, Scott said. This combination of turbocharging and direct fuel injection delivers a wealth of low-end torque and maintains it across a broad rpm range, which is key in towing applications, he said.

The 3.5-liter EcoBoost truck engine delivers 420 lb.-ft. of torque and 365 horsepower to enable towing of up to 11,300 pounds, Scott said, adding that

milestone with the sale of its fuel and with outstanding fuel economy.

> 'Truck customers should think of the EcoBoost truck engine as a gas-powered engine with dieseltype capability and characteristics," said Jim Mazuchowski, Ford V6 engines program manager.

"The twin turbochargers and direct injection give it the broad, flat torque curve that makes towing with a diesel so effortless and hard acceleration so much fun."

In the last three years, no competitor has eclipsed a 20 percent take rate for V6 engines in halfton trucks. It's been a predominantly V8 crowd, until the introduction of the Ford EcoBoost V6. Scott said.

"Today's customer doesn't hold to the old notion that a truck must be powered by a V8 engine," Scott said. "Just five years ago, you would have had a hard time making a case for V6 truck engines. Not today. Now, it's all about fuel effectiveness.

"Customers are looking for the best combination of city and highway mileage, horsepower, torque, towing capacity, payload and value, asking the key question, 'What is the most productive, efficient package for the work I need to do?"

The efficiency a V6 engine delivers is starting to have a significant impact on the environment, Levine said. By moving half a million F-150 customers out of V8s and into V6 engines, Ford has saved more than 56 million gallons of fuel - more than all of the fuel saved from every electric and plug-in electric car ever sold

"This assumes people move out of a conventional, midsized hybrid into a more efficient vehicle that never or rarely runs on gas for 15,000 miles a year," Scott said. "That gap will only widen as time goes on.'

Along with the 3.5-liter Ti-VCT and 3.5-liter EcoBoost V6 engines, the 2015 Ford F-150 will offer a new 2.7-liter EcoBoost engine with standard Auto Start-Stop, built in Lima, Ohio.

Production of EcoBoost is supported, in part, by Ford's green partnership with the U.S. Department of Energy, Levine said.

Ford has 11 facilities in the U.S., including retooling of Cleveland Engine Plant where Eco-Boost is made, participating in the Advanced Technology Vehicles Manufacturing Loan Program. This green loan program helped to develop advanced technologies and strengthen American manufacturing across the country.

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## **GM Committed to Further Reducing Energy** In Its Plants, Helping Other Manufacturers

General Motors is joining the Renewable Energy at the DOE. U.S. Department of Energy's Better Buildings, Better Plants Challenge, pledging to reduce the energy intensity of its manufacturing plants and facilities by 25 percent in 10 years.

The Better Plants Challenge is a component of the Better Buildings Challenge, a broader-based initiative that provides technical solutions to help companies improve energy efficiency, said GM spokesperson Sharon Basel.

More than 120 companies have made long-term commitments to energy efficiency as part of the challenge and to report their progress once a year.

The Better Plants Challenge is a more select group of manufacturers that make additional commitments to openly share their energy performance data and market-leading energy-efficiency strategies, Basel said.

We have 31 U.S. plants participating in the Better Plants Challenge program that have already achieved 12 percent energy intensity reduction over a 2008 baseline, putting us more than halfway to our goal," said Gary Londo, GM senior energy optimization engineer.

"We're committed to reducing energy use in our facilities, but sharing best practices is equally important to creating a lasting impact."

The Better Buildings Challenge is a national leadership initiative launched by President Obama in 2011 with the goal of making American commercial and industrial buildings more energy-efficient in 10 years, Basel said.

"By committing to cut energy use, Better Buildings, Better Plants Challenge partners are demonstrating how businesses and manufacturers are reducing our nation's energy bill, creating American jobs, and protectthe environment," said David Danielson, assistant secretary for Energy Efficiency and

### **Young Car Buyers** Like Gas-Sipping Automobiles

Younger car shoppers are placing more importance on fuel efficiency than their older counterparts, according to new research from AutoTrader.com.

When asked what factors most influence which car to purchase, fuel efficiency ranks second only to price for millennials (ages 18-34). Millennials are also three times more likely to consider purchasing an electric vehicle than older generations.

In response to this, AutoTrader.com's expert editorial team has named the ten "Must Shop" vehicles for consumers who are looking to reduce or eliminate their visits to the gas station. The list includes vehicles at a range of price points and powertrains, and is designed to give car shoppers choices depending on their budget and personal preferences.

"There are more options out there for shoppers interested in fuel efficiency than ever before, and the technology just keeps getting better," said Brian Moody, AutoTrader.com site editor. "It used to be that people who wanted a fuel-efficient vehicle might have to compromise on style and performance, and that's definitely not the case today. The cars we've recognized fall into that sweet spot of 'having it all' - and many are at a price that's within reach for car shoppers who are just starting out.'

New vehicles praised by Auto-Trader editors include the Volt and the Fusion Hybrid.

"With commitments representing more than 600 plants and facilities, these partners are leading the way to a cleaner energy economy.'

In addition to working with the DOE on the Better Plants Challenge, GM has been recognized by the U.S. Environmental Protection Agency with an ENERGY STAR Partner of the Year - Sustained Excellence Award for superior energy management, Basel said.

It also has 63 facilities meeting a voluntary ENERGY STAR Challenge for Industry - reducing energy intensity by 10 percent within five years.

GM also has committed to using 125 megawatts of renewable

energy globally and has been recognized as a Solar Champion by the U.S. Solar Energy Industry Association for promoting a strong U.S. solar industry, Basel said.

According to Basel, the automaker is also a leader in the industrial sector for its use of landfill gas to offset energy use in several assembly plants.

Since 2011, Better Buildings, Better Plants partners have committed more than 3 billion square feet and 600 manufacturing plants and facilities to energy-efficiency upgrades and have shared energy performance results for more than 9,000 facilities. Partners have saved 36 trillion Btu and \$300 million since the Better Buildings Challenge began, Basel said.



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