

## 1.0-Liter Ford EcoBoost Named International Engine of 2012

DEARBORN – Ford Motor Company's new 1.0-liter EcoBoost engine – which launched to acclaim this year in the Focus in Europe – has been named 2012 "International Engine of the Year" based on votes cast by 76 journalists from 35 countries around the world.

The small, high-tech three-cylinder engine also hauled in two other awards – "Best New Engine" and "Best Engine Under 1.0-Liter."

The awards were presented by *Engine Technology International* magazine.

This marks the first time Ford has won International Engine of the Year in the 13-year history of the awards. Moreover, the 1.0-liter EcoBoost garnered the highest score in the history of the awards.

"We set the bar incredibly high when we set out to design this engine," said Joe Bakaj, Ford vice president, Global Powertrain.

"We wanted to deliver eye-popping fuel economy, surprising performance, quietness and refinement – and all from a very small three-cylinder engine.

"The team responded to this seemingly impossible challenge with some really exciting innovation," Bakaj added.

"The result is a game-changer for gas engines globally."

Said Dean Slavnich, chairman of the International Engine of the Year awards and editor of *Engine Technology International*: "This is a fitting victory for a truly remarkable engine."

The engine – small enough to fit on a European sheet of A4 paper – was designed at Ford's technical centers in Dunton, U.K., and Merkenich, Germany. The engine is built in Ford's plants in Craiova, Romania, and Cologne, Germany.

The 1.0-liter EcoBoost engine uses a low-inertia turbocharger to deliver power quickly when the throttle is opened from low rpm. The turbocharger's impeller delivers high power at speeds of up to 248,000 rpm.

Further 1.0-liter EcoBoost innovations include:

- An exhaust manifold, cast into the cylinder head, lowers the temperature of exhaust gases to enable the optimum fuel-to-air ratio across a wider rev band
- A unique cast iron block warms the engine more quickly than a conventional aluminum block to cut the amount of "warm-up" energy required by 50 percent, and cut fuel consumption
- Two main engine drive belts are immersed in oil to deliver a quieter, more efficient engine
- Offsetting the engine configuration by deliberately "unbalancing" the flywheel and pulley instead of adding ener-

gy-draining balancer shafts. The 1.0-liter EcoBoost debuted this year on the Focus in Europe and will be offered next in C-MAX and B-MAX in Europe later this year. The 1.0-liter EcoBoost will be made available in Ford models in the U.S. and Asia Pacific and Africa next year.

The new Focus 100-PS (98-horsepower) 1.0-liter EcoBoost engine delivers best-in-class fuel efficiency of 58.9 mpg and CO2 emissions of 109 g/km. The 123-horsepower model returns 5.0 liter/56.5 mpg with CO2 emissions of 114 g/km.

In its first full month of sales across Europe, more than 4,700 customers ordered a Focus 1.0-liter EcoBoost, accounting for nearly a quarter of all Focus cars ordered in Ford's 19 traditional European markets.

Ford of Europe plans to triple annual production of vehicles equipped with efficient EcoBoost gas engines to approximately 480,000 by 2015, from 141,000 in 2011. The automaker projects that more than 300,000 of those vehicles will be equipped with the 1.0-liter EcoBoost engine.

In determining International Engine of the Year, judges consider driveability, performance, economy, refinement and the successful application of advanced engine technology.

The popularity of the 1.0-liter EcoBoost engine with judges saw it receive 28 percent more points than its closest rival and the highest points total of any engine in the history of the competition.

"For a three-cylinder to power a vehicle like the Ford Focus with such ease proves the future is very, very bright for the internal combustion engine," said Slavnich of *Engine Technology International*.

"Power, response and very good real-world fuel consumption figures are just the tip of the iceberg when it comes to this engine and what it offers drivers today. Well done, Ford!"

Other judges also praised the 1.0-liter EcoBoost.

"If downsizing is the way ahead, there is currently no better example than this," said U.K.-based journalist John Simister.

"Same power as the naturally aspirated 1.6-liter engine it replaces, and much punchier to drive."

"With good torque at the very low end, this high-tech three-cylinder turbo gives the driving performance of a small turbo-diesel, but without noise and vibrations," said Christophe Congrega of French-based *L'Automobile Magazine*.

Ford is leading the march downward across the engine band such that three cylinders is the new normal.

## Ford's Cherry Hill Farm Earns State Nod

DEARBORN – When you think of Ford Motor Company you're likely to think of cars and trucks – not farms. So it may come as a surprise to learn that the company has a storied farming history.

Today, Ford's last free-standing working farm – Cherry Hill Farm – is being honored by the Michigan Agriculture Environmental Assurance Program (MAEAP) for effective land stewardship.

MAEAP verification is a voluntary program that shows farmers how to reduce agricultural pollution.

The Cherry Hill Farm is an 882-acre working farm in Washtenaw County that produces corn, soybeans, wheat and hay.

Once used by Ford's Tractor Division for testing, the land is managed by Ford Land, the company's real estate arm, and farmed by the VanWashenova family. The property includes three historic barns and a farmhouse.

"I am honored to farm land that has such strong ties to Ford Motor Company," said Al VanWashenova. "Getting the Ford Cherry Hill Farm verified was the right thing to do, and I am very proud of this accomplishment."

"For the past 12 years, Ford and the VanWashenova family have made a great team," said Donna Inch, Ford Land chairman and CEO. "Today's recognition is another example of Ford's commitment to sustainability."

Starting in 1906 and continuing through the early part of the 20th century, Henry Ford acquired 26,000 acres of farm property in southern Michigan, and much of the farmland was managed in detail by Ford himself.

During these years, Ford began his experimentation with farming techniques, crops and tractors, using many of these farms as laboratories.

Ford's giant land holdings were made up of hundreds of small, family-sized farms – many with a livable house and usable barns like the Cherry Hill Farm.

The Cherry Hill Farm was



Owned by Ford Motor Co., the Cherry Hill Farm is an 882-acre working farm that produces corn, soybeans, wheat and hay.

used to test tractors and their implements, and raise crops for experimentation, including early biomaterials and food production.

Henry Ford made certain his properties were well-fenced, the roads were in good repair and the schools for the farm children were the best possible.

potential environmental risks.

The Michigan Department of Agriculture and Rural Development (MDARD) conducts an on-farm inspection to verify compliance. When completed, the producer receives a certificate of environmental assurance. To remain a MAEAP-verified farm, inspections must be con-

Hill Farm have to sustainable agriculture practices as well as safeguarding the environment."

MAEAP is a collaborative effort of farmers, MDARD, Michigan Farm Bureau, commodity organizations, universities, conservation districts, conservation and environmental groups, and state and federal agencies.

More than 100 local coordinators and technical service providers are available to assist farmers as they move toward verification.

An average of 5,000 Michigan farmers attend educational programs annually; 10,000 Michigan farms have started the verification process; and more than 1,100 farms have been verified to date.

In March of 2011, Governor Rick Snyder signed Senate Bill 122 and House Bill 4212, now Public Acts 1 and 2 of 2011, to codify the Michigan Agriculture Environmental Assurance Program into law.

MAEAP is a multi-year program allowing producers to meet personal objectives, while best managing both time and resources.

The program encompasses three systems designed to help producers evaluate the environmental risks of their operation. Each system – Livestock, Farmstead, and Cropping – examines a different aspect of a farm, as each has a different environmental impact.

By participating in all three systems, producers can comprehensively evaluate their entire farming operation for potential environmental risks.

**"This verification shows the strong commitment both Ford and Cherry Hill Farm have to sustainable agriculture practices ... and the environment."**

Many of the farms were used as meeting places for much of the community, and Cherry Hill is no exception. Dances were held in the historic barns on the property, and community meetings were held in the old farmhouse.

In the past few years, Ford has begun restoration efforts at the Cherry Hill Farm. Of the three barns, one has been restored, one is in the middle of the restoration process and the third is slated to begin restoration next year. In addition, work has been done to the old farmhouse, including new siding and windows.

To become MAEAP-verified, farmers must complete three comprehensive steps that include attending an educational seminar, conducting a thorough on-farm risk assessment, and developing and implementing an action plan addressing any number of

acted every three years and action steps must be followed.

"With this farm's historical tie to both the automotive and agriculture industries, we congratulate Ford Cherry Hill Farm and the VanWashenova family on this verification," said Gordon Wenk, MDARD's chief deputy director.

"This verification shows the strong commitment both Ford Motor Company and Cherry

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The screenshot shows the website interface with a navigation bar at the top, a main content area with several news snippets, and a sidebar on the right. The main content area features headlines such as "85 Years and GM Design Still Rolling Out Winners", "15 Years, \$3.5M in Charity, Arts, Beats & Eats Thrives", and "Emerging Viper Legacy Graces Cafe at the Chrysler Museum". The sidebar on the right includes a section for "Economic Development Coordinator Optimistic on Auburn Hills Future".

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