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FCA Pentastar Production Hits 10 Million

- Award-winning Pentastar engine family comprises six variations in three displacements that power half of all vehicles produced for Chrysler, Dodge, Jeep®, Ram and Ram Commercial lineups
- Soon to be available in 16 FCA models across five brands and 10 vehicle segments†
- Highly flexible design has enabled timely evolution with seamless integration of advanced technologies – from two-step variable valve lift to hybridization
- 3.6-liter Pentastar V-6 contributes to 11 best-in-class U.S.-market fuel-economy ratings across four vehicle segments,† along with six unsurpassed ratings in three segments†
- Best-selling engine in Canada, with its subarctic climate, for six years running
- Introduced in model-year 2011, Pentastar replaced seven engine families, benefiting FCA with significant economies of scale

February 13, 2019, Trenton, Mich. - The 10-millionth Pentastar engine was produced here today at FCA US LLC's Trenton Engine Complex.

Introduced as a 3.6-liter V-6 in 2010, the Pentastar engine family has accounted for six placings among the prestigious annual list of Wards 10 Best Engines and currently comprises six fuel-saving variations that feature technologies from Variable Valve Lift (VVL) to hybridization.

Acclaimed for it silky, torque-rich performance, today's 3.6-liter Pentastar is the common denominator among 11 current best-in-class fuel-economy ratings for U.S.-market, gasoline-powered vehicles equipped with V-6 engines. (See below.) These are in addition to its ownership of the all-time minivan-efficiency mark, achieved in Chrysler Pacifica Hybrid.

Pentastars currently account for half the combined total of engines that power Chrysler, Dodge, Jeep®, Ram and Ram Commercial vehicles. And with this year's launch of the 2020 Jeep Gladiator pickup,they will be available in 16 models across 10 vehicle segments.†

"The Pentastar family has all the hallmarks of an enduring icon," said Bob Lee, Head of Engine, Powertrain and Electrified Propulsion, and Systems Engineering, FCA – North America. "We upped the ante among high-volume, mainstream-market, V-6 engines. And our customers won big."

Pentastar design distinguishes itself with innovative features ranging from a completely integrated exhaust manifold, to environmentally friendlier oil-filter cartridges made from paper. And with little or no modification, Pentastar engines can accommodate longitudinal or transverse mounting; front-, rear-, and all-wheel-drive architectures; as well as automatic and manual transmissions.

Within four years of launch, this flexibility helped FCA replace seven six-cylinder engine families with a single V-6 design that lends responsiveness and fuel efficiency to every vehicle in which it is offered. These two attributes were key targets for the 2015 introduction of an upgraded 3.6-liter Pentastar,which boasts cooled exhaust-gas recirculation (EGR) for greater efficiency, particularly under high load situations.

Further, the second-generation 3.6-liter Pentastar delivers a torque boost of up to 14.9 percent at engines speeds below 3,000 rpm – where torque really counts. FCA US also enhanced fuel economy and refinement with the addition of two-step variable valve lift (VVL).

Said Lee: “Pentastar engines do exactly what they were engineered to do. They deliver satisfying experiences in a wide range of driving conditions.”

In Canada, where most of the country’s climate is classified as subarctic, the 3.6-liter Pentastar V-6 is the best-selling engine for six years running.

For the 2019 Ram 1500 full-size pickup, the second-generation 3.6-liter Pentastar was adapted to accommodate the eTorque mild-hybrid system. It not only adds fuel-saving stop-start functionality that is seamless, it increases available torque, in short bursts, by up to 90 lb.-ft.

The eTorque-equipped Pentastar is also the latest member of the celebrated V-6 family to be named one of Wards 10 Best Engines. The remaining Pentastar family members are:

- 3.6-liter V-6 hybrid in the Chrysler Pacifica Hybrid
- 3.6-liter V-6 (first- and second-generation)
- 3.2-liter V-6, which is exclusive to the Jeep Cherokee
- 3.0-liter V-6, which is exclusive to China

FUEL-ECONOMY ACHIEVEMENTS

Among model-year 2019 U.S.-market gasoline-powered vehicles with V-6 engines, the 3.6-liter Pentastar contributes to best-in-class, miles-per-gallon (mpg) ratings in these vehicle segments†:

Middle Specialty Car

- Dodge Challenger – combined city/highway cycle (23 mpg)
- Dodge Challenger – highway cycle (30 mpg)

Large Regular Car

- Dodge Charger/Chrysler 300 – combined city/highway cyle (23 mpg)
- Dodge Charger/Chrysler 300 – highway cycle (30 mpg)
- Dodge Charger/Chrysler 300 – city cycle (19 mpg)

Small Sport Utility

- Jeep Wrangler – combined city/highway cycle (20 mpg)
- Jeep Wrangler – highway cycle (25 mpg)
- Jeep Wrangler – city cycle (18 mpg)

Middle Sport Utility

- Jeep Grand Cherokee/Dodge Durango – combined cycle (21 mpg)
- Jeep Grand Cherokee/Dodge Durango – highway cycle (26 mpg)
- Jeep Grand Cherokee/Dodge Durango – city cycle (19 mpg)

Among current U.S.-market gasoline-powered vehicles with V-6 engines, the 3.6-liter Pentastar contributes to unsurpassed fuel-economy ratings in these vehicle segments†:

Middle Specialty

- Dodge Challenger – city cycle (19 mpg)

Small Van

- Chrysler Pacifica – combined mpg (22)
- Chrysler Pacifica – highway mpg (28)
- Chrysler Pacifica – city mpg (19)

Large Pickup

- Ram 1500 (with eTorque mild-hybrid technology) – combined city/highway cycle (22 mpg)
- Ram 1500 (with eTorque mild-hybrid technology) –city cycle (20 mpg)

† 2019 WardsAuto Segmentation

About FCA US LLC

FCA US LLC is a North American automaker based in Auburn Hills, Michigan. It designs, manufactures, and sells or distributes vehicles under the Chrysler, Dodge, Jeep®, Ram, FIAT and Alfa Romeo brands, as well as the SRT performance designation. The Company also distributes Mopar and Alfa Romeo parts and accessories. FCA US is building upon the historic foundations of Chrysler Corp., established in 1925 by industry visionary Walter P. Chrysler and Fabbrica Italiana Automobili Torino (F.I.A.T.), founded in Italy in 1899 by pioneering entrepreneurs, including Giovanni Agnelli. FCA US is a member of the Fiat Chrysler Automobiles N.V. (FCA) family of companies. (NYSE: FCAU/ MTA: FCA).

FCA is an international automotive group listed on the New York Stock Exchange under the symbol “FCAU” and on the Mercato Telematico Azionario under the symbol “FCA.”

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