# Extend in-service engine life and reliability with technology used by Formula One racing teams

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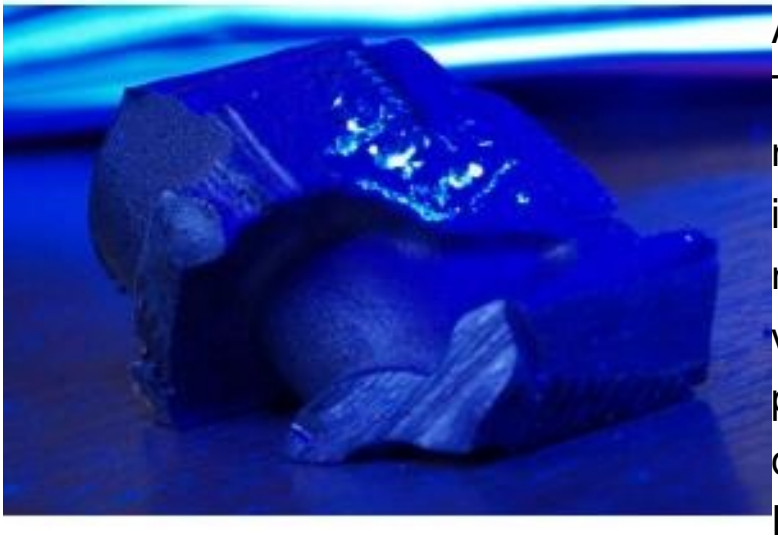

Ann Arbor, MI (RPRN) 10/11/13 — Technology used by Formula One racing teams can help to extend in-service engine life and reliability of mass production vehicles by ensuring leak-free parts, Bob Remler, Vice-President of Ultraseal America Inc., will tell Engine Expo North America 2013.

He will explain how using vacuum impregnation with Ultraseal porosity sealants as a routine quality enhancement is a reliable and p0ermanent solution to the eternal problem of casting porosity, at the show on Thursday, October 24th at 12.10pm

He will speak before an audience of powertrain engineers and other industry experts at the Open Technology Forum being held as part of Engine Expo at the Suburban Collection Showplace in Novi, Michigan.

Incorporating the vacuum impregnation process into a production line will lead to higher reliability and fewer warranty issues which in turn will enhance an automotive supplier's reputation for quality with its customers.

Casting porosity is essentially microscopic holes which are formed during the casting process and which can lead to a host of problems, from "spotting out" of surface finishes to creating leak paths in parts that have to operate under

pressure, causing them ultimately to fail.

Mr Remler said: "Vacuum impregnation with Ultraseal porosity sealants is increasingly being used as a routine quality enhnacement process by manufacturers who want to ensure they produce leak-free parts.

"The fact that the Ultraseal impregnation process is used by a number of Formula One racing teams is testament to its effectiveness. While F1 teams impregnate individual parts, modern impregnation equipment is now easy to incorporate into a

production line.

"Moreover, vacuum impregnation is highly cost effective as problems with casting porosity are often not evident until a late stage in the production process, by which time so much added value has been invested in the automotive parts that it is very expensive to scrap them."

Parts which benefits from Ultraseal vacuum impregnation include notably engine blocks and cylinder heads, but also cam carriers, cam covers, fuel pumps, fuel rails, heads, inlet and fuel system components, oil pans, oil sumps, thermostate housings, timing chain covers, torque converter case/bell housings, transmission cases, pump castings and valve body castings, turbo chargers and water pumps.

Ultraseal International, the parent company of Ultraseal America Inc., is a global leader in the design and manufacture of vacuum impregnation equipment and porosity sealants, with a long pedigree of innovation and excellence.

One of its most significant advances is the introduction of recycling sealants such as Rexeal 100™ which has cost and environmental benefits because it consumes less chemicals and less water, and produces far less wastewater

than non recoverable porosity sealants.

Recycling sealants such as Rexeal 100™ and Ultraseal MX2™ are becoming increasingly popular as environmental concerns and legislation increases around the world, particularly as both are also certified to the internationally-recognised US military specification MIL-I-17563C (Class 1 and 3).

Rexeal 100™ in particular outperforms many non-recycling porosity sealants, being effective at temperatures of up to 428°F (220°C).

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