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INDEPENDENT LAB TESTS SHOW AS MUCH AS 40% PERFORMANCE GAP BETWEEN GENUINE HONEYWELL AFTERMARKET TURBOS AND COPIES

NO_x emissions from copies as much as 28% higher than original fit turbo replacements and the worst-performing copies also emitted nearly 3% more CO₂ than genuine parts.

ROLLE, Switzerland -- June 8, 2016 -- Honeywell (**NYSE: HON**) Transportation Systems today announced the results of a study that indicates replacement turbos built to the original specifications of the factory-installed part they replace have significantly better performance, CO₂ and NO_x emissions than non-original copies. The results come from an independent lab study commissioned by Honeywell.

The test of several turbocharger replacements was conducted in the United Kingdom by Millbrook Group. The study used the average of two homologated replacement turbos built to original equipment specifications (OE Fit) from Honeywell's Garrett brand of replacement turbos as well as a leading competitor to compare against the highest-selling third-party units in Europe, which were reverse-engineered or remanufactured without qualified turbo factory support.

The results indicate:

- **Low-end torque** with an engine using a copy turbocharger was decreased by 15 percent to 40 percent compared to OE Fit turbochargers.
- **NO_x emissions** from non-OE copy turbochargers were between 8 percent and 28 percent higher than OE Fit turbochargers.
- **CO₂ emissions** from some non-OE copy turbochargers were nearly 3 percent greater measuring between 2.0g/km and 4.5g/km higher than OE Fit turbochargers, or an emissions amount approximately equivalent to using an additional liter of fuel for every tank driven.

"The results of this independent study are a clear indication of why Honeywell's Garrett genuine replacement turbochargers from Honeywell are the best value proposition for distributors, installers and the end customer," said Eric Fraysse, Aftermarket vice president and general

manager at Honeywell Transportation Systems. “While this test was done using the New European Driving Cycle (NEDC), we expect the performance and emissions gap would have been even larger had the more relevant Worldwide Light Duty Test Cycle (WLTC) been used.”

Type Approvals in Europe

During the past several months, regulatory agencies in Germany, Spain and Italy have all made statements supporting the inclusion of turbochargers among automotive components that are type-approval relevant. The role of the turbocharger is significant in considering a replacement part because it helps achieve environmental targets set by regulators, which can be compromised by non-genuine aftermarket parts.

Millbrook Group

Millbrook Group provides vehicle test, validation and engineering services to customers in the automotive, transport, tire, petrochemical, defense and security industries. It is independent and impartial in everything it does.

Supporting Resources

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Honeywell Aerospace products and services are found on virtually every commercial, defense and space aircraft, and its turbochargers are used by nearly every automaker and truck manufacturer around the world. The Aerospace business unit develops innovative solutions for more fuel efficient automobiles and airplanes, more direct and on-time flights, safer flying and runway traffic, along with aircraft engines, cockpit and cabin electronics, wireless connectivity services, logistics and more. The business delivers safer, faster, and more efficient and comfortable transportation-related experiences worldwide. For more information, visit www.honeywell.com or follow us at [@Honeywell_Aero](#) and [@Honeywell_Turbo](#).

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Honeywell (www.honeywell.com) is a Fortune 100 diversified technology and manufacturing leader, serving customers worldwide with aerospace products and services; control technologies for buildings, homes, and industry; turbochargers; and performance materials. For more news and information on Honeywell, please visit www.honeywell.com/newsroom.

About Millbrook Group

At its Proving Ground in the UK, Millbrook has 70 kilometers of varied test tracks, including hill routes, high speed areas and challenging off-road courses. Its professional drivers and engineers perform repeatable tests on all types of vehicles in a secure and safe environment. It has a range of test facilities for components and full vehicles. These include engine dynamometers, environmental chambers, crash laboratories and advanced emissions chassis dynamometers.

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