Benefits / Results Achieved
Using Rescale, Pinnacle Engines:

- Ran **240+ simulations**, revealing previously undiscovered design features
- **Reduced the time to results by 80%** by running jobs in parallel with no wait time for hardware or software
- Achieved greater than **73% cost savings** compared to the use of additional internal resources
- Ran jobs on an SOC 2 compliant infrastructure with **industry-leading security features**

Simulation Solution
Using Rescale, Pinnacle Engines is able to set up tens of jobs within minutes--customizing simulation resources for each job as follows:

- Job-tailed compute resources are dynamically provisioned within five minutes of job submission
- Run tens of jobs simultaneously without having to queue for software or hardware
- Execute simulations whenever needed using both on-demand Rescale hardware and CONVERGE software
- Gather results and deliver them to local servers for post-processing and analysis
- Securely run proprietary simulation models with end-to-end data encryption on isolated, encrypted clusters

Summary
Rescale’s secure and intuitive cloud platform combined with on-demand CONVERGE CFD software enabled Pinnacle Engines to efficiently execute 240+ simulations and achieve faster results for improved engine design.
**Rescale**
Rescale offers a software platform and hardware infrastructure for companies to perform scientific and engineering simulation. Rescale's mission is to provide a highly powerful simulation platform that empowers the world's engineers and scientists to develop the most innovative products and perform groundbreaking research and development.

For more information:
www.rescale.com

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**Convergent Science**
Convergent Science, Inc. is a world leader in Computational Fluid Dynamics (CFD) software. Our flagship product, CONVERGE™, is shifting the paradigm toward predictive CFD revolutionizing the industry. Convergent Science has locations in Madison, Wisconsin, and New Braunfels, Texas, along with distributors worldwide.

The staff at Convergent Science are experts in CFD simulations, numerical methods, model development, and design optimization. Since 1997, Convergent Science has been providing quality consulting to the Internal Combustion Engine industry and beyond.

For more information:
http://www.convergecfd.com

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2015
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