

# **REG TECHNOLOGIES INC.**

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## **REGI U.S., INC.**

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### **NEWS RELEASE**

## **INITIAL FRICTION TESTS SUCCESSFUL ON RADMAX™ 375 HP DIESEL ENGINE**

REGI U.S., Inc. ("REGI" or "RGUS")  
Reg Technologies Inc. ("Reg" or "RRE.V" or "REGRF")

For Immediate Release February 6, 2013 Vancouver, BC – REGI U.S., Inc. (OTC BB: RGUS, Frankfurt Stock Exchange: RGJ) and Reg Technologies Inc. (TSX Venture Exchange: RRE.V, OTC BB: REGRF) wish to announce that the assembly on one side of the RadMax™ engine is completed and initial tests have commenced. To date, friction testing has been initiated with positive results. The initial dry friction tests indicate the engine should have friction loads equal to or better than a standard diesel engine. After the completion of the friction and compression tests the entire engine will be assembled and tested with diesel followed by compressed natural gas.

Paul Porter, Chief Engineer, states, "The original plan for the tests was to complete the assembly on the right side first. Then, after friction and compression tests the entire engine will be assembled for additional testing with diesel and natural gas

Please see the following report by Paul Porter:

### **Prototype Support**

- Assembly and Testing of the Diesel Prototype is the focus of efforts at Williams and White.
  - All parts are complete.
  - Most Subassemblies are complete.
  - The rotor and driveshaft were successfully assembled.
  - Two slots and oil coolers were corrected.
  - A single side of the engine was assembled with two vanes and actuators placed in adjacent slots.
  - Dry friction numbers were obtained for the installed vanes and actuators.

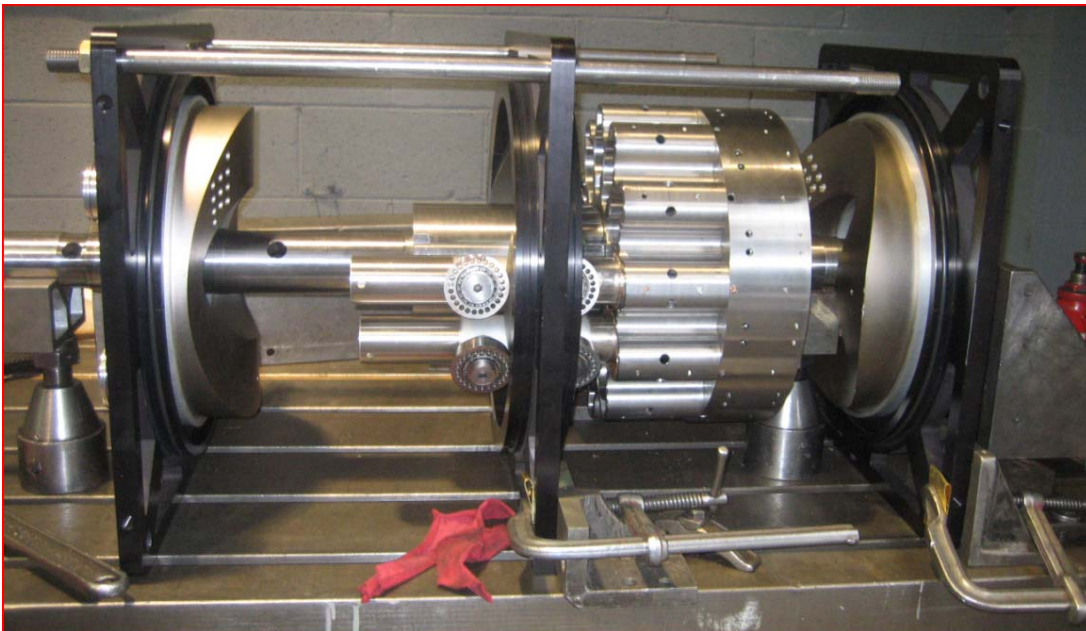
➤ Friction Data:

- Dry friction of the rotor, shaft and cam alone is virtually zero. The force of gravity alone would rotate the assembly to where the oil coolers were installed.
- Dry friction was measured with two actuators installed with vanes, but no seals. The vanes were placed in adjacent slots with the oil coolers minus the seals and the linear bearing installed. The following was observed:
  1. Static friction was measured at 72 ft-lbs @ 1 rpm.
  2. Alignment of the stator to cam was critical to the value of the friction measured. The vanes and actuators will bind and friction will rise when the alignment is out. Therefore the above numbers are preliminary because the alignment was done visually and it is expected the friction will drop additionally when full and proper alignment is achieved.
  3. There was zero lubrication of the bearings, oil cooler and vanes.
  4. Evidence of rubbing of the vane against the oil coolers was observed at disassembly.
- The above friction numbers would indicate the engine should have friction loads as good as or better than a standard diesel engine.

➤ Future Plans:

- Williams and White to make the required changes to the rotor.
- During the week of February 11th the engine will be assembled with seals in place.
- Prepare the engine to measure friction numbers with the seals installed.

Below is a picture of the RadMax 375 hp design:



## **ABOUT REGI U.S., INC. AND REG TECHNOLOGIES INC.**

Reg Technologies Inc. and REGI U.S., Inc. are developing for commercialization an improved axial vane type rotary engine known as the Rand Cam™/RadMax™ rotary technology used in the revolutionary design of lightweight and high efficiency engines, compressors and pumps. The RadMax™ engine has only two unique moving parts, the vanes (up to 12) and the rotor, compared to the 40 moving parts in a simple four-cylinder piston engine. This innovative design makes it possible to produce up to 24 continuous power impulses per one rotation that is vibration-free and extremely quiet. The Radar™ engine also has multitude capabilities allowing it to operate on fuels including gasoline, natural gas, hydrogen, propane and diesel. For more information, please visit [www.regtech.com](http://www.regtech.com) or [www.regiinc.com](http://www.regiinc.com).

### ON BEHALF OF THE BOARD OF DIRECTORS

REGI U.S., Inc.   Reg Technologies Inc.

"John Robertson"   "John Robertson"

John Robertson   John Robertson  
President   President

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