

**FOR RELEASE**

**Media Relations Contact:**

Bill Holbrook  
(603) 578-3052  
[bholbrook@vectron.com](mailto:bholbrook@vectron.com)

**Media Relations Contact:**

Jessica Ryan  
(617) 587-2923  
[jryan@brodeur.com](mailto:jryan@brodeur.com)

***Vectron International's ViSmart™ Viscosity Sensor  
Successfully Tested in Ship-Board Application***

*Major National Maritime Fleet Considering Use of ViSmart Sensor in its  
Ship-Board Engines for Continuous, Real-Time Monitoring*

**HUDSON, NH — August 7, 2007** —The Sensors & Advanced Packaging (SAP) business unit of Vectron International, a leader in the design, manufacture and marketing of Frequency Control, Sensor, and Hybrid Product solutions, today announced that its ViSmart™ viscosity sensor has been successfully evaluated in a simulated ship-board application for a major national maritime application by the Defense Research and Development Canada – Atlantic (DRDC – Atlantic), an agency of the Canadian Department of National Defense (DND). As a result of the performance testing, DRDC – Atlantic has applied to DND to conduct shipboard tests for consideration of installation of the ViSmart™ into ship-board equipment for continuous real-time lubricant monitoring.

Randy Haggett, the condition based monitoring project scientific authority for DRDC – Atlantic, stated: “The results of the evaluation of the ViSmart sensor are very positive so far. The sensor has been shown to track the change in viscosity as a function of temperature, while also accurately monitoring fuel dilution effects on the condition of oil. Such products will enable the fleet to deploy real-time on-line diagnostic capabilities to optimize engine performance and preventive maintenance procedures.”

***For more information:***

***USA:***

Vectron International, 267 Lowell Road, Hudson NH 03051  
Tel: 1-888-VECTRON-1 Fax: 1-888-FAX-VECTRON  
e-mail: [vectron@vectron.com](mailto:vectron@vectron.com) Internet: <http://www.vectron.com>

***Europe:***

Vectron International, Landstrasse, D-74924 Neckarbischofsheim Germany  
Tel: 49 (0) 7268 8010 Fax: 49 (0) 7268 801281

***Asia:***

1F-2F, No 8 Workshop No. 308 Fenju Road WaiGaoQiao Free Trade Zone Pudong, Shanghai, China 200131  
Tel: 86 21 5048 0777 Fax: 86 21 5048 1881

The ViSmart™ sensor was integrated into a diesel engine and testing was carried out across the entire temperature spectrum ranging from 0°C to 120°C for a series of specified commercial oils that are used on-line at the ship as part of the routine operating conditions. After testing for repeatability and reproducibility, the manufacturer's test data showed that the ViSmart™ detected oil aging as a function of viscosity to accuracy and repeatability values of  $\pm 1\%$ .

“Vectron's Sensors & Advanced Packaging business is dedicated to quality, service, flexibility, and innovation,” said Kerem Durdag, director of business development, SAP business, Vectron International. “The fact that our ViSmart™ viscosity sensor's potential for continuous, real-time lubricant monitoring in a ship-board application has been successfully demonstrated is further validation of the technology in a wide array of oil condition monitoring applications.”

Vectron's ViSmart viscosity sensor is designed to provide instantaneous sample and/or continuous, real-time, in-process viscosity measurements for embedded real-time, in-line environments requiring high resolution and accuracy in low- to mid-range viscosity fluids. The ViSmart viscosity sensor uses robust and reliable semiconductor technology, has no moving parts, and is sealed for complete immersion. It is unaffected by vibration or flow conditions, does not need field calibration and is packaged in a very portable, lightweight size. The ViSmart sensor measures a wide range of viscosity of fluid and is rated for temperatures up to 125°C in a threaded bolt package for quick installation, with custom options and configurations available for specific industry applications and process requirements.

The ViSmart model series can be connected to any computer or control platform via the standard USB port and the forthcoming CANBUS and 4-20 mA options to provide a continuous audit trail for process monitoring markets to control operating costs and maintain quality standards. Additionally, leveraging Vectron's *Starter Kit* bench-top viscometer data station, the customer can acquire multiple channels of continuous viscosity and temperature data.

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For more information on the ViSmart sensor please contact Vectron's fluid sensors sales team at 603-578-4077. For more information on other Acoustic Wave Sensors from Vectron please contact a customer service representative at 1-88-VECTRON-1 or visit [www.visensors.com](http://www.visensors.com).

### **About Vectron International**

Vectron International is a world leader in the design, manufacture and marketing of frequency control, sensor, and hybrid product solutions. Vectron solves complex timing, filtering and sensor challenges by delivering customized solutions that speed time to market and offer low total cost of ownership. Vectron uses the very latest techniques in both bulk acoustic wave (BAW) and surface acoustic wave (SAW) based designs from DC to microwave frequencies. Committed to the industry's highest quality service standard and complete satisfaction, Vectron International leverages its global footprint and 50 years of experience to help customers achieve competitive differentiation and improve their bottom line. Vectron International is headquartered in Hudson, NH and has operating facilities and sales offices in North America, Europe and Asia. For more information, please call 1-88-VECTRON-1 or visit [www.vectron.com](http://www.vectron.com).

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