



Trelleborg Launches Innovative Subsea Vibration Suppression System

Trelleborg's offshore operation has launched an innovative new vortex induced vibration (VIV) suppression system. The Tri-Strake™ Combi, developed to complement the high performance S-Lay capable Tri-Strake™ Stinger system and the cost effective Tri-Strake™ Lite system, not only eases installation but provides added resilience and load bearing capacity, including stinger installation loads.

Jonathan Fox, Senior Product Development Engineer for Trelleborg's offshore operation, says: "Pipelines unsupported over free spans, such as steel catenary risers and rigid steel flowlines, are prone to VIV fatigue, which can lead to serious issues such as pipe girth weld failure or premature pipe malfunction. To combat this, the Tri-Strake™ Combi comprises interlocking moldings, with three-start helical strakes."

Trelleborg utilized its vast offshore and VIV knowledge in the design of the Tri-Strake™ Combi and carried out extensive computational analysis and physical testing. The system's lightweight construction provides operators with a simple and rapid assembly method. While the customized high endurance material selected for the system not only provides added resilience and load bearing capacity, it also eases installation.

Each section of the system has been designed as a lightweight hinged component, ensuring it is quick and easy to pre-install onshore or install offshore. The unique, modular design enables the system to be stacked during shipping, ensuring more efficient and cost effective transportation.

Trelleborg's innovative manufacturing process also means that the Tri-Strake™ Combi can be produced up to three times faster than systems manufactured using traditional techniques, reducing tool turnaround and manufacturing times.

Fox, added: "The Tri-Strake™ Combi was developed in response to market demand for a high quality, cost-effective VIV suppression solution. Using an established manufacturing technique we were able to meet these demands by using rapid manufacture leading to quick installation times and reduced transportation costs.



“Working with polymers across a number of technologies and industries, we were able to use our insight and innovation to improve VIV suppression performance using best-value engineered solutions.”

For additional information please visit our website at www.trelleborg.com/offshore.

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For press information or additional information on Trelleborg Offshore solutions for all offshore and subsea markets, please call Ruth Clay, Direct: +18324568308, Mobile: +12817405755; ruth.clay@trelleborg.com.

Notes to Editors:

Trelleborg’s offshore operation and Trelleborg Group

Using advanced polymer material technology, Trelleborg’s offshore operation provides high integrity solutions for the harshest and most demanding offshore environments. As part of the Trelleborg Offshore & Construction Business Area of Trelleborg Group, Trelleborg’s offshore operation specializes in the development and production of polymer and syntactic foam based seismic, marine, buoyancy, cable protection and thermal insulation products, as well as rubber-based passive and active fire protection solutions for the offshore industry. Within its portfolio are some long established and respected brands including, CRP, OCP, Viking and Emerson & Cuming. Trelleborg’s offshore operation has been providing innovative solutions to the industry for over 30 years. www.trelleborg.com/offshore

Trelleborg is a world leader in engineered polymer solutions that seal, damp and protect critical applications in demanding environments. Its innovative engineered solutions accelerate performance for customers in a sustainable way. The Trelleborg Group has annual sales of SEK 25 billion (EUR 2.65 billion, USD 2.94 billion) in over 40 countries. The Group comprises five business areas: Trelleborg Coated Systems, Trelleborg Industrial Solutions, Trelleborg Offshore & Construction, Trelleborg Sealing Solutions and Trelleborg Wheel Systems. In addition, Trelleborg owns 50 percent of TrelleborgVibracoustic, the global market leader within antivibration solutions for light and heavy vehicles, with annual sales of SEK 18 billion (EUR 1.94 billion, USD 2.15 billion) in about 20 countries. The Trelleborg share has been listed on the Stock Exchange since 1964 and is listed on Nasdaq Stockholm, Large Cap. www.trelleborg.com.