Tourist Vessel With Waterjet Propulsion Increases Safety and Reliability

Critical wear on existing shaft seal system causing costly downtime.

The Problem

A client faced critical issues with their existing **waterjet propulsion** system due to significant wear on internal components, which compromised sealing performance. Additionally, key structural elements, including the aluminum flange, were damaged or broken, impacting the system's integrity and operational efficiency.

Client Impact

These failures resulted in the inability to reinstall the shaft seal system, leading to operational downtime. Furthermore, the client lacked manufacturer support to address the problem effectively. Compounding the issue, they required a comprehensive maintenance solution for their entire propulsion system, which called for specialized expertise and technical support.

The Solution

To address these challenges, the existing sealing system was replaced with a **PSS Flange System** and a **PSS Type B Shaft Seal**—chosen for its robust design, reliability, and compatibility with the propulsion system.

> *"This upgrade not only resolved the structural and sealing inefficiencies but also provided a modern, easily maintainable solution for the client's operations."*

Added Value

PSS Seal provided a tailored, fully integrated solution with the following advantages:

- **Complete System Upgrade** – Included all necessary components to seamlessly replace the outdated sealing system.
- **Enhanced Safety & Reliability** – The PSS system minimized the risk of water leaks caused by vibrations or misalignment.
- **Improved Operational Efficiency** – The modern design required less maintenance and ensured long-term durability.
- **Comprehensive Technical Support** – PSS Seal's expertise guided the client through installation and maintenance, ensuring a smooth transition.

Industry:	Marine
Products:	PSS Type B Shaft Seal Part **#02-120-M800** Flange Part **#07-F12-0M800SS**
Application:	Tourist Vessel **with waterjet propulsion**
Savings:	Reduced maintenance cost and downtime

PSS Seal
12532 Beverly Park Road Ste. B
Lynnwood, WA 98087
Tel: 425-400-1772
www.pssseal.com