



# PACIFIC POWER GROUP MARINE

Customer Solutions

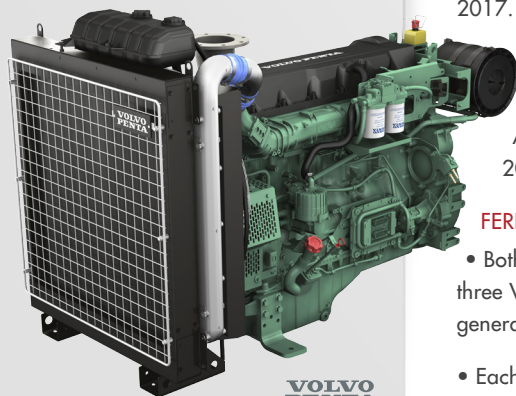
**CUSTOMER:**  
**WASHINGTON STATE FERRIES**

**POWER SYSTEM:**  
4 Volvo Penta D13 generators

**VESSEL TYPE:**  
Passenger Ferry

**LOCATION:**  
Greater Seattle Area, Washington

**DATE:**  
Final Delivery in 2018



**VOLVO  
PENTA**  
Volvo Penta D-13



## New Seattle Metro Ferries Powered by PPG

**Washington State Ferries needed to replace aging vessels in their fleet, the oldest of which were built during the 1950s and 1960s. Volvo Penta generators provided by Pacific Power Group have been selected to power new ferries for the Washington State fleet, including the Chimacum, which was recently delivered, and the Suquamish, currently under construction.**

Transporting nearly 24 million visitors and residents between 20 different ports each year, the Washington State Ferry (WSF) fleet is trusted as the primary water transport for the Puget Sound area – from Port Defiance all the way to Vancouver Island in Canada. Seven of 22 current vessels are between 40 and 60 years old and are approaching the end of their service lives. The new Washington State vessels are the Olympic class 144-car ferries, two of which are already in service. Vigor Industrial was contracted to design and build the new ferries, with PPG providing the crucial onboard power.

The Chimacum will be replacing an older vessel on the Seattle/Bremerton route in late spring 2017. The Suquamish is slated to arrive to WSF in Fall 2018. The Tokitae joined the Mukilteo/Clinton route in 2014, and the Samish was put into service on the Anacortes/San Juans Island route in June 2015.

### FERRY POWER SPECS

- Both will be source on-board power from three Volvo Penta D13 keel-cooled ship service generators
- Each generator will supply 341 kWe of power
- PPG also supplied Volvo Penta D13 radiator-cooled emergency generator sets for a custom-fabricated skid to each ferry

### ENVIRONMENTAL BENEFITS

Reducing emissions is a critical focus for WSF. The new Volvo Penta generators are EPA Tier 3-certified and will have cleaner operations than previous power sources, helping to reduce impact on Washington's waterways and air.

### ABOUT THE VOLVO PENTA GENERATORS

Volvo Penta engines and generators have been trusted for more than 100 years to provide quality and environmentally friendly propulsion for marine vessels. Volvo Penta's marine gensets are designed for easy installation and offer exceptional reliability, high load acceptance and lower cost of ownership. Their marine gensets are available in a complete range from 62 to 477 kWe. Volvo Penta marine engines are designed to keep running with maximum uptime, the highest levels of safety and minimal environmental footprint.

### ABOUT PACIFIC POWER GROUP

Pacific Power Group is a leading sales and service provider of new and remanufactured engines, marine power, power generation products and commercial trucks. PPG is a longtime partner of Volvo Penta, and has more than 50 years of experience supplying innovative marine power solutions and premier service to solve complex power demands. Pacific currently operates four sales, service, and parts warehousing facilities with extended service in the Northwest. 