BC Ferries
Queen of Oak Bay

Tail Shaft Liner Repair
Seaspan
Vancouver Dry Dock - May 2015

A “Lloyd’s Register Canada” approved tail shaft liner repair

Worked performed by:

Industrial Surface Technologies Inc.
Marine component repair specialists

NEW Thermal Coating Technologies - Quality certified by “Lloyds Register Canada”

A very cost effective alternative with a much faster turn around for critical repairs

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Initially there is some machining done to the damaged substrate area to be rebuilt. Following that a masking process is done to protect the areas outside of the repair area.

The tail shaft is then transported to the grit blast containment area.

Grit blasting is done in accordance to industry standards for Thermal Coating.

The repair area is grit blasted.

Grit blasting cleans the surface and leaves an anchor tooth profile.
After the grit blasting it is then inspected.

The grit blasted surface is checked for surface roughness and must meet a prescribed minimum profile.

The grit blasted area is masked once again to protect shaft from any over spray during the spray application.
Personnel monitor spray build up and keep a close watch for uniformity of coating and application temperature.

After the coating build up is complete all masking is removed.

The shaft is now ready to proceed to finish machining.
After machining and finishing is completed Lloyd’s Register Canada finalizes and signs off on a QA17 form which is a visual inspection acceptance sign off done at the various stages of repair.

The finish machining process begins and is finished to specification.

Thermal Coating repairs from Industrial Surface Technologies Inc. is the way of the future!

- Can be done on all ferrous and non-ferrous alloys including cast/ductile iron
- Repairs to shafts as well as I.D. fits on housings
- Large build ups of .250 inch per side can be achieved with many alloys
- Low temperature application allows repairs without any distortion or metallurgical changes to the alloy

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Thermal Coatings are used in numerous industries such as:

- MARINE
- POWER GENERATION
- HEAVY EQUIPMENT
- MEDICAL
- MINING
- OIL & GAS
- PULP & PAPER
- AEROSPACE

CONTACT INFORMATION
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More information on Thermal Coating Systems and application use in your industry at our web site:

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