Ferry Maintenance Report - Queen of Oak Bay



Vessel: Queen of Oak Bay

Date: Oct 5th, 2016

Arrival: Signed in at Departure Bay Terminal 0800. Parked in long term parking

Reporter: Rowan Fox Staff: Ian Beliveau, Rowan Fox

Ship's crew: Chief Eng. Serge

Reason for Visit

To benchmark and clean instruments

Measure alignment of met station and install new mounting brackets.

Observations

- 1. Next refit is 20160103 20160119, Deas Docks. Project Manager is Dmitry Kravtsov, Dmitry.Kravtsov@bcferries.com
- 2. System operating in a normal state. All dry inside the instrument box.
- 3. Met station:
 - Met station pole was mounted to plastic backing using U-bolts, these had started to crack the plastic backing.
 - Measured alignment of met station: 7 degrees to the right from the #2 end center line.
 - Hemisphere Vector is still in original alignment.
 - Hemisphere Vector needs new mounts, see pictures.
 - Other upper deck equipment is in good shape.

4. Optode SN418

 Removed for cleaning and calibration. 100% saturation and 0% saturation measurements were spot on, optode is in good functioning condition

5. BBFL2 SN1053

- BBFL2 housing showing signs of stress and cracking where bolts secure endcap to instrument housing
- Bent pin on BBFL2 bulkhead connector
- Removed for cleaning and benchmarking

Pre cleaning notes: Chl channel showed ~560 counts, CDOM channel showed about 240 counts.

Post cleaning notes: Chl channel showed ~580 counts, CDOM channel showed about 290 counts. Low CDOM measurements, fluorometer should be swapped out because of this.

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6. TSG SN0017

Sensor was removed and cleaned

Actions Taken

- 1. Arrived at the terminal at 0800, parked in long term parking. Signed in with terminal supervisor
- 2. Boarded the ship, met with chief steward, then signed in at the engine room after the red
- 3. Opened up the computer box, shut down Seakeeper computer
- 4. Opened up the instrument box, began disassembly.
- 5. Performed benchmarking on BBFL2 and optode. Both are responding to their respective standards. BBFL2 CDOM channel is reading low, should consider for replacement.
- 6. Cleaned TSG
- 7. Reinstalled instruments.
- 8. Replaced tubing.
- 9. Cleaned seastrainer.
- 10. Powered up system, checked for leaks and data acquisition. Confirmed no water leaks.
- 11. Installed new dessicant
- 12. With authorization from Chief Engineer Serge, went to the upper decks to inspect met station.
- 13. Used a protractor to measure the wind sensor at 7 degrees to the right from the #2 end center line.
- 14. Because the whole met station was rotated, we worked to install new mounts for the met station's pole. Ensured alignment. Wind sensor's zero is now parallel with ship's #2 end center line.

Future Actions

Assess need to install new BBFL2 housing.

Install new mounts for Hemisphere Vector

Swap out BBFL2

Pictures





























