

Ferry Maintenance Report

Vessel: Queen of Alberni

Date: May 30, 2014

Arrival: 12:45PM sailing to Tsawassen. We signed in at terminal supervisor at Duke Point.

Reporter: Akash Sastri/Chris Sundstrom

Staff: Chris Sundstrom, Akash Sastri, Jeremy Krogh

Reason for Visit

Regular instrument servicing

Observations

1. There was negligible moisture and no signs of leaks In the Instrument Box.
2. Hoses from manifold to instruments were clear of obvious fouling.
3. Minor sedimentation in the Seabird 45 CT sensor unit.
4. Moderate to high sedimentation in the optode housing
5. Moderate to medium biological material and biofouling of the BBFL2 comparable to the previous trip: May 16, 2014.
6. The sea chest showed no signs of leaks.

Actions Taken

1. Opened both boxes and observed function. Both were working well, no leaks anywhere.
2. Powered down and disassembled instruments in lower assembly.
3. Cleaned and checked over instruments in engineering room.

4. Ran pre- and post- calibration with standard solutions for CDOM fluorescence and Chl fluorescence. A more detailed report on the calibration procedure and initial results to follow.
5. Re-assembled the instruments in the lower box. The BBFL2 unit and housing was swapped out from BBFL2-786 to unit BBFL2-787.
6. Exchanged 3 panel clips for new panel clips.
7. Checked over Sea chest and valves, no leaks apparent.
8. Checked and cleaned the sea strainer.
9. Turned ON the system. Re-named the BBL2 ID (from BBFL2 786 to BBFL2 787) in the SeaKeeper system software on board.
10. No leaks in instrument housing and checked flow output at sea strainer. Flow was good. Visually confirmed flow direction at the BBFL2 and confirmed the volume filled with water and began draining correctly.
11. Inventory of the stores/tools box taken.
12. Signed out at Engineering room.
13. Visual inspection of the meteorological station from the lower deck. All instruments appeared to be in good working order.

PICTURES



Figure 1. Replacement of panel clips located behind the BBFL2 is typically housed

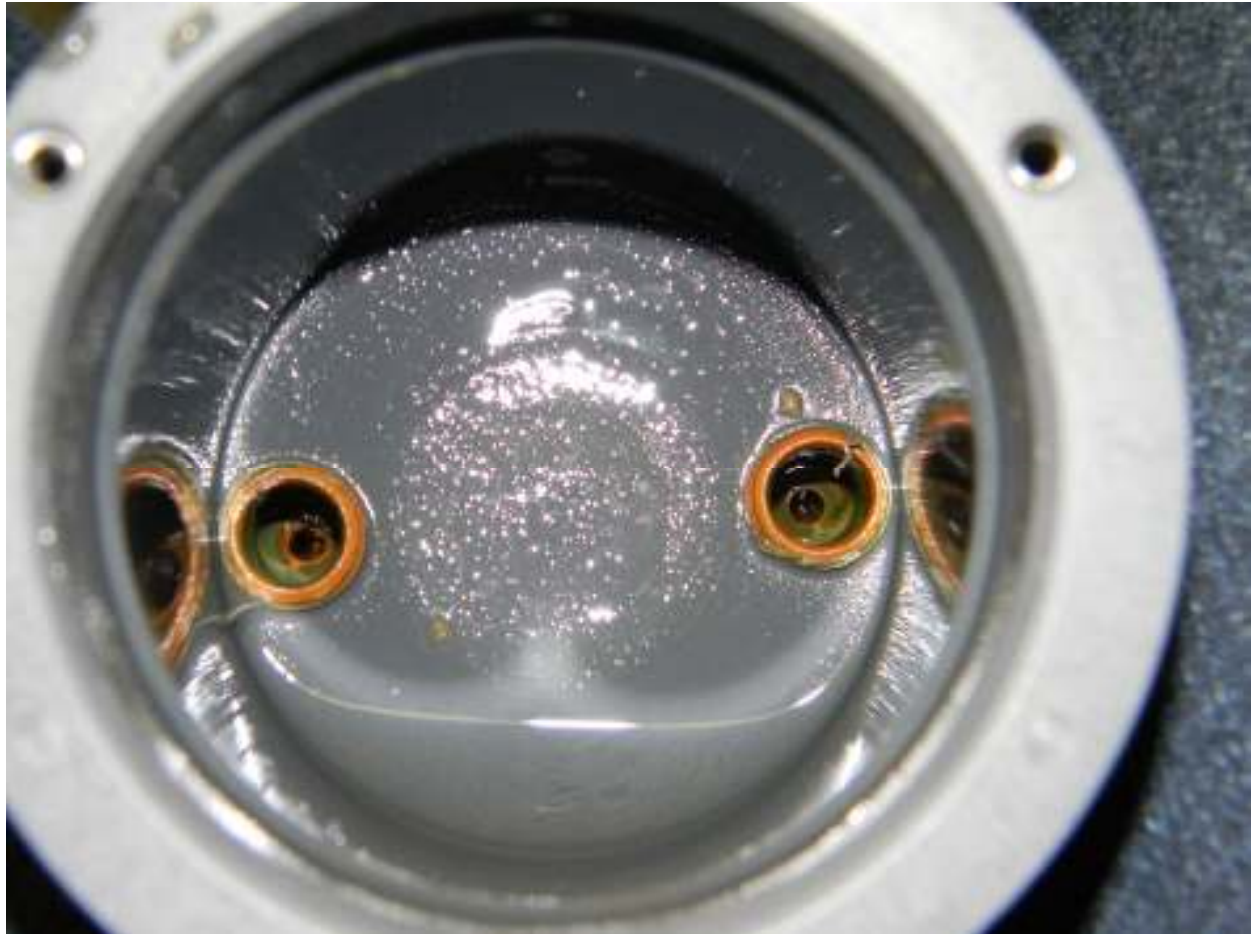


Figure 2. Aanderaa optode: housing with moderate sedimentation.



Figure 3. Moderate to high sedimentation on the optode.



Figure 4. Optode window relatively clean.



Figure 5. Buildup of sediment and biological material within the BBFL2-786 housing.



Figure 6. Sea-strainer before cleaning.

