MARINFLOC®
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Service Bulletin

no. 19, 2016-03-16

Operation instruction of Marinfloc CD at Port state inspection

System applicability: Marinfloc CD standard, all models with oil content meter type Deckma OMD-2005 fitted.

Start procedure

1. Turn on the heating, air and water supply. Clean the OCM and flush it. Confirm that reading is 0 ppm on fresh water and close the valves on the sampling line to avoid dirty water into meter during start up. Confirm the alarm delays on the OCM by pushing 🔧 and then OK. Set alarm 1 to 10 seconds, and alarm 2 to 1 second.
2. Start the separator to warm it up. Turn all switches into “AUTO” and process switch in “ON”. System starts and start delay is active for 20 seconds. During start up the valve no. 58 will be open until water temperature reaches 40 °C inside circulation tank.
3. Ensure that ship’s overboard valve is closed and open the port state control valve so that overboard flow can be visible through this valve into a funnel or sight glass.
4. When the water has risen to 40 °C, the water will continue to flocculation tank and then run for recirculation (139) for 15 minutes. This is to ensure clean water to the filters. If the water is clean in the recirculation sight glass, the filtering can also be started by manually turning the S3 switch to filtering.
5. When filtering (140) has started, it is normal with high ppm during the first minutes after start up. It is then recommended to take a sample of the filtrated water before opening the valves on the sampling line to OCM. Take sample at outlet of third filter (from the drain valve or test cock at valve 27). Water must be very clear!
6. Confirm that the flow switch (96) is not active when the sample valves are closed.
7. Open the valves on the sampling line and ensure that flow switch activates (96) is lit.
8. If flow switch is activated and ppm value is below the set point, overboard valve shall now open. Confirm a visible flow from the port state control valve.
9. Close the sample valves and confirm that overboard valve closes. Visibly confirm that there is no flow from the port state control valve.

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Start procedure

1. Turn Process switch into “OFF”. Flush OCM and ensure reading 0 ppm. Close sample valves before and after OCM.
2. Simulate flow through the flow switch by loosen the screw on its sensor and adjust it until indication (96) is lit.
3. Restart separator on the process switch. Overboard valve (6) will now open and there shall be flow from the port state control valve.
4. Open the lid of OCM and pour a small amount of high ppm liquid into the OCM (Formazin etc).
5. When ppm value increases above the set point, overboard valve (6) shall immediately close and the return valve (7) open. Visually confirm no flow from the port state control valve. After 10 seconds separator shall stop and give alarm to ECR.

Flow switch

Important! The above described adjustment is only for testing of the automatic stopping device.

The flow switch purpose is to ensure sample flow through the OCM at all times. This is a requirement in MEPC.107(49) regulation (see below extract).

§ 6.2.2 The arrangement on board ship for the extraction of samples from the 15 ppm Bilge Separator discharge line to the 15 ppm Bilge Alarm should give a truly representative sample of the effluent with an adequate pressure and flow.

Thus, it is the operator’s responsibility to ensure that the flow switch is reset to its initial position after test.

Reset back to normal operation

6. Turn process switch to OFF. Flush the OCM and confirm reading of 0 ppm Adjust the flow switch back to its original position and make sure (96) is not lit.
7. Reset the alarm 1 to 4 minutes.
8. Open the sample valves and start the separator on the process switch. Confirm overboard valve is opened when there is flow through flow switch (96) and ppm value is below set point.

Always keep the system in good condition. Flocculation must work at all times. Get familiar with the system and practice the above instruction regularly and before inspection – this will simplify the port state inspections.

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