

"Yachts Management" wrote:

Dear Tony,

I trust you are fine.

Returning to SeaClean system – we are considering replacement of BOS to SeaClean or HUG (similar system) for M/Y Ari.

Am I correct assuming that BOS on board Serenity was replaced to SeaClean, are there any problems after last time that you informed me about this system back in May?

Thanks!

With best regards,

██████████

Yacht Manager

Dear ██████████,

Trusting this finds you well. I am doing very well.

Yes you are a hundred percent correct, the BOS system was dispensed with as it was not up to the job. I will attach a query from another boat builder who asked the same questions and hoping our answers will enlighten you.

Q: On which engine is it installed ? (Main Engine or Genset, Power, Brand, ...)

A: We have the SeaClean system installed on both of our gensets. These are 165Kw units with John Deere 6090 engines. (kilopak)

Q: How long is it installed for?

A: They were installed at the end of 2013 and have put approx. 1500 hours on each unit since

Q: How long do you use it on an annual base ?

A: I intend to use this system continuously (obviously not while we are on shore power though!!) but we have only had it fitted for 7-8 months so far.

Q: What is the maintenance schedule for the filters?

A: This is the biggest unknown and I think every boat will be different, depending on use, load and the condition of the generators before the system is fitted. Our generators were in good condition with low hours and no soot before the units were installed and after 1500 hours there has been no change in back-pressure.

My hope is that we can last for about 18 months and then remove the filters and have them cleaned, to coincide with each haul-out.

We also have some straight-through pieces of bypass pipe that we can fit in place of the filters, should they become blocked.

Q: Did you have any particular problems ?

A: We have had no particular problems and the system works very well. It is basically maintenance-free. In my opinion the only real maintenance will be the removal and cleaning of the filter, which will need to be done by a specialist company. One point worth noting is that our generator exhausts run from the engine-room aft, through the lazarette and exit on the waterline at the stern. The extra temperature in the system has caused the exhaust pipework through the lazarette to increase in temperature by 10-20 degrees Celsius (depending on load) This isn't too much of an issue for us but it might be a problem on other vessels. Although I am also aware that the regeneration cycle on the HUG units will put the exhaust temperature up by a much more significant amount!

Q: What is your general opinion ?

A: My last boat had the HUG system installed and the difference between the 2 systems is like night and day. This system is far smaller so takes up much less room, and is far less complicated than the HUG system which needed a fuel and air supply if I remember correctly. The HUG system also uses more fuel to burn off the soot. The SeaClean system, as I'm sure you are aware, uses electric heater elements, which also help to act as a load bank. When the generator is on low load and the exhaust temp is low, the elements switch on to bring up the exhaust temperature, this in turn increases the load on the generator. At higher loads, when the exhaust temp is higher, the elements are no longer needed to maintain the temperature and they switch off, so the capacity of the genset is not reduced in any way. I think I have some photos on file that I can attach for you to get a better idea of the size.

I hope this information is useful for you but if you have any more questions, or if you would like to have a look for yourself, please do not hesitate to ask.

Best Regards,

Jamie Price

UPDATE:

The only difference now is we have done over 2000 hrs on the Gensets without any back pressure issues, indicating that our filters are still good. I have enclosed some pictures to show you the relative size. Please do not hesitate to contact me should you need any further information.

Kind regards

Tony

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From: Chief Engineer
Sent: Oct 1, 2014 3:38 AM
To: 'Rick' , Freddy Quintero
Subject: Good reports!

Morning guy's,

Trusting this is finding you well.

I am the bringer of good news today as our owner has been on for a few days and as usual, when things are going well in his life, he is full of compliments and the like. He could not stop raving about the good job done by all with ref to the exhausts. He started by asking whether I had routed the Generator exhaust from the transom as he could hear the Genny running but could see no telltale slick as he had become accustomed too.

Thought I would share this with you guys as I felt quite proud. It is a huge leap forward from the old system that we had and no more filters to clean and throw away at huge cost to the owner. Of course the deckies cannot stop singing the praises either as their work load around the exhaust ports are minimal compared to what it was, all the constant cleaning and stuff.

At the risk of repeating myself, we are very happy with the system and of note; bust the 2000 hr milestone with no back pressure problems in site.

Best regards

Tony



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