



ECR. 11.0 - DAILY WORK DONE REPORT

Date : 10/08/2018

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Made by : QHSE

Approved by : MD

Rev. No : 0

Vessel: Bitu Atlantic

Year: 2018

Department: Electrical

Date (dd/mm/yy): 30/11/18

Month: November

Note:

- This form must be filled up on daily basis
- For each department (Deck / Engine / Electrical) a separate work done report is to be prepared.
- The Deck work done report to include Bridge & Accommodation
- Every Sunday the updated electronic copy shall be sent to technical@maritec.be
- At the end of the month, complete signed report shall be sent along with the monthly documents

Date	Place	Work Description
1 st	At Port	Daily routines check carried out. Forward Tunnel blower – As per request, change rotation and make it Exhaust, to inspect the tunnel during first cargo loading, check motor vibration, voltage, ampere and found working satisfactory – same inform to duty officer. Replace fluorescent lamps in pump room, the job has been completed, all lights are in working condition. Adjust and Calibrated the pressure switch of Cargo Pump High Discharge Pressure trip for all 3 COP, as per owner/office instructions. Can perform real test during discharging.
2 nd	At Port	Daily routines check carried out. Aux. Boiler, Electro motor of Feed water pump no. 01, Disconnect and dismantle, check and found Burnt due to over heating check insulation and found grounding, same inform to duty engineer. PMS computer installed MS office and activate with licence key, check and found all working well. All accommodation lights check – Repair/replace fluorescent lamps/fittings, recheck and found all working well.
3 rd	At Port	Daily routines check carried out. Aux. Boiler, Electro motor of Feed water pump no. 02, Disconnect and dismantle, clean and apply varnish, change bearings and box-up, check insulation found satisfactory, fix on the position and connect, test the pump and found working satisfactory. Main engine CAS band sensor – check the air gap and adjusted at 1mm, connect the LEMAG indicator with sensor and found showing pulse while rotating the engine with turning gear. Further checks can be done while taking the Engine performance (with running engine). Main engine visco-steam control valve opened and clean, check motor connections and also PCB and found overall condition good, fix back valve on position.
4 th	At Sea	Daily routines check carried out. Received MGPS flow meters, mount on position and connect flow switch, open the sea water and check the system and found the air purging valve (old valve) has been leaking, same inform to duty engineer. Found earth fault in 440V system, check almost machinery but we could not found, we suspect the lighting transformer, same inform to the C/E and awaiting for further instructions.
5 th	At Sea	Daily routines check carried out. Start MGPS and Found High current flow, investigate and found the low resistance between anode and casing, dismantle the unit and clean, replace the anode, anode spacer and o-rings. Apply varnish on bolts and fixed on position, open sea water and check leaks. Start the system and found it drawing 100 Amp. (As Normal) as per previous records. Boiler water circulating pump No. 01 Electro-motor disconnect and removed from position, dismantle the motor and clean, Apply the varnish and keep for draying. Replace the motor bearing. The work is in progress.
6 th	At Sea	Daily routines check carried out. Boiler water circulating pump No. 01 Electro-motor O/H has been completed, box-up the motor and check the insulation and found satisfactory. Cascade tank filling water solenoid valve open and clean, found valve

To be filed on board in ECR 11.0 folder



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		coil have overheated marks – but it is working. After cleaning fix back on position. With Wartsila technician – fix chemical dosing drums on position and secure. Connect level switches and suction pipes, purge the lines with fresh water and test the dosing pump and found working satisfactory. Check the rectifier unit and found signal missing, investigated and found connection plugs are interconnected, fix on right place and test, found working satisfactory. Commissioning of Ballast water treatment system with technician the work is in progress.
7 th	At Sea	Daily routines check carried out. Boiler water circulating pump No. 01 Electro-motor mount on the position and connect, start the pump and found working satisfactory. Boiler water circulating pump No. 02 Electro-motor disconnect and dismantle, clean the motor and apply varnish. Change the bearings and box-up the motor. Check the insulation and found satisfactory. O/H has been done check condition and found satisfactory, fix motor on the position and connected with power supply. With Wartsila technician- check on dosing module air flow switch and found giving alarm, while blower running, check the switch and inspect over all, check connections, make settings on the pressure switch, test again and found working satisfactory. Fill chemical in the analysing unit in pump room, demonstrates the operational function to the Duty officer/Ch. Officer. How to fill and who to operate the system, and how system has works. Testing of mixing module the work is in progress.
8 th	At Sea	Daily routines check carried out. Aux. generator L.O. Purifier, Check the defective solenoid valve, found spare valve and test in workshop and found working satisfactory, hand over the solenoid valve to the 4 th engineer. MGPS system found tripped, check the system and found current controlling PCB has been burnt, removed the PCB and check other equipment also, making the list with specifications for request spares - the work is in progress. Thermal oil boiler – bypass the Expansion tank High level, Low level and Low low-level switches for to run the boilers in rough weather as per C/E order. The commissioning of BWMS the work is in progress.
9 th	At Sea	Daily routines check carried out. Checked COP No. 03, check power supply and also checked all temperature and RPM sensor and cables in pump room – before start the pump. Start two generator and hydraulic pump for valve control, check cargo pump casing temperature, follow the instructions from office and start the cargo pump No. 03, found running smooth at 300 RPM, check vibration found satisfactory, we tested the pump at 800 RPM, current and load, suction and discharge pressure found satisfactory. The commissioning of BWMS the work is in progress. Solenoid valve for Sea water cooling for Rectifier unit for BWMS tested and found in operational, check the valve and coil in workshop found working but on position without solenoid valve we have 110V but with solenoid valve we don't have any voltage, check the circuit and found fuse blown and from LED indication we are getting the power supply 110V, replace the fuse and fix the valve on position and test, found working satisfactory.
10 th	At Sea	Daily routines check carried out. Saturday routines carried out. The commissioning of BWMS the work is in progress. Checked COP No. 01 & 02, check power supply and also checked all temperature and RPM sensor and cables in pump room – before start the pump. Start two generator and hydraulic pump for valve control, check cargo pump casing temperature, follow the instructions from office and start the cargo pump No. 01 & 02, found running smooth at 300 RPM, check vibration found satisfactory, we tested the pump at 800 RPM, speed control, current and load, suction and discharge pressure found satisfactory.
11 th	At Sea	Daily routines check carried out. Check Thermal oil boiler No. 02, Test the system and found the boiler is working on partial load but in auto mode it is not controlling the temperature (can increase but can not decrease) so it goes 210 and trip the burner. As per maker instruction Check the circuit and found that the temperature controller is working in auto mode and the relay 60K4 is in OFF position, check if any lose connection and found satisfactory. Check the circuit diagram and found the temperature controller – relay connection for to control the burner control motor found wrong, make the connection as per drawings and test, found now burner is



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		working satisfactory in Auto and in Partial mode. Check No. 01 Boiler and found while starting - the burner motor is working but after firing it is remain in partial load, in auto it's not responding, as per maker instruction we checked the circuit and found that the temperature controller is working in auto mode and the relay 60K4 is in OFF position as normal, the investigation is in progress...
12 th	At Sea	Daily routines check carried out. Check the power supply for burner controller motor (Selection – Increase and decrease) and found NO Voltage due to faulty relay 51K6. Normally it must have energized while boiler running (Mode selection – Partial or Auto). Checked the relay and found coil burnt, and no spare on board. Found 51K7 with same specifications and this relay is used with 1 NC contact for boiler running signal - To HFO Temperature controller (63B4 DR 100) For time being we replace the 51K7 relay with 51K6, now 51K6 is OK. On the place of 51K7 we have fixed 2 relays: 1st – 16Amp. 110V in series connection (because we don't have same relays with same specifications) and connect with the circuit as like before (As per drawing). Also check the Temperature controller and We found that, the relay output cable connection on Temperature controller unit (JUMO DICON touch) was in-correct. As per previous connections – the controller unit is closing the 51-D but the due to wrong connection it was unable to close 51-D. Make the connections as per drawings and test the system, found working satisfactory in Partial and Auto mode. Presently we keep PORT Boiler running for more observation.
13 th	At Sea	Daily routines check carried out. Check the Incinerator and found Limit switch of burner is malfunctioning, disconnect and clean, fix back and test and found working satisfactory. Thermal oil boiler – Expansion tank high temperature alarm check and found it is real alarm, check the temperature on No. 3 Box (No. 03 circulating P/P panel) and found 178°C, also with portable laser gun we check and found 145°C outside the tank, as per maker it should remain below 50°C and max. 70°C. so the alarm is true alarm, same inform to C/E. BWMS Fixed Back the Sea water cooling line solenoid valve, and connect/test, found working satisfactory. Found Some pipes leaking of BWMS in E/R, Same rectified with engine fitter. Till now we test all the equipment and all are working accept TRO units in pump room. The commissioning of BWMS the work is in progress.
14 th	At Sea	Daily routines check carried out. Check OWS with 2 nd Engineer, check the power supply, found not coming, trace cables and found one additional circuit has been installed on behind of the MSB, the circuit will be get energised only from bridge, switch ON from the bridge and check and found power supply available on the starter panel. Also check 15ppm alarm and found working satisfactory. Assist Wartsila technician for testing some modules in pump room. The commissioning of BWMS the work is in progress.
15 th	At Sea	Daily routines check carried out. Bond Store light has been checked and found cable damage and due to short circuit trip, the power supply, open selling and remove the wire for switch and replace with new one. Fix back all the selling, secure the cables, replace the lamp and check the insulation and found satisfactory, put ON the power and found working satisfactory. Repair/Replace deck lights, Paint locker, Deck store, crew common bath rooms and always, now all are working satisfactory. Replace fuse lamps in MSB for starter panels. Check the ETA light and replace the battery with C/O. test the light and found working satisfactory.
16 th	At Anchorage	Daily routines check carried out. E/R bottom platform, check and found that power sockets are not working due to aging, 04 Numbers in bottom platform and 02 numbers are in 3 rd deck in engine room, disconnect and remove old once and fix new once, test and found working satisfactory. Some of them found, internal cables damage, replacing the internal cables is in progress. M/E L.O. Purifier electrical heater, found not increasing the temperature more then 45°C, check and found that the set point of the pressure switch need to be adjust, with 4 th engineer we adjust the pressure on 2 bar, test the system and found working and increasing the temperature up to the set point. On E/R bilge lights- replace lamps and installed new glass cover and guard for protection. Aux. boiler – check fuel oil low pressure alarm, investigate and found the sludge in pressure switch tubing (pipe line), drain



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		the line and flush, till good F.O flow has come. Connect the line and check the switch and found working satisfactory.
17 th	At Anchorage	Daily routines check carried out. Saturday routines carried out. Aux. Boiler – Clean Flame eye, remove and clean Aux. Burner Ignition Electrodes, Clean Nozzle, clean and clear fuel Line, check solenoid valves, check manual firing and found working satisfactory, Box-up everything and try – out with 2 nd Engineer and found working satisfactory in manual and Auto mode. Take Machinery Running Hour counter and make Excel sheet as per C/E Instruction. Check Welding Machine in E/R Workshop, found not working (MCB Trip), open, clean and check and found the current scale wire broken and make short circuit with power circuit, remove the broken wire and spring, check the insulation and test the welding machine and found working satisfactory.
18 th	At Anchorage	Daily routines check carried out. Update the PMS the work is in progress. Check A/C filter and fan belts, apply grease on fan bearings, check vibrations and found working satisfactory. Repair some portable tights – change lamps, repair cables, change plugs, repair torch lights 3Nos.
19 th	At Sea	Daily routines check carried out. Replace wiring in new switch sockets in bottom plate foam 04 Nos. and 02 Nos. in 3 rd deck in E/R. Repair switch sockets in E/R workshop – replace the switch and replace wiring, test the circuit and found working satisfactory. Change fluorescent lamps in accommodation 12 nos. PMS Update - the work is in progress.
20 th	At Sea	Daily routines check carried out. Shift some unused items in Steering gear room, arranging the store the work is in progress. Check boiler drawings and make 3 copies and put in side the boiler panels, checked the new heaters wiring diagrams and make copies and put in side of the heater panels. Updating the PMS the work is in progress. Adjust the short time trip delay in ECR main breaker for thermal oil boiler. Check and replace indicator lamps in ECR. Check waste oil tank exhaust blower starter switch, found the push button not working due to aging effect. Try to find any spare switch, the work is in progress. But for time being start the blower from inside. Some portable lights repairing the work, is in progress.
21 st	At Sea	Daily routines check carried out. New VHF set installed in Foam room, prepare wiring and make power connections for new VHF sets. E/R Check incinerator and found that – when we run the incinerator on diesel then it is working fine but when we change over to the waste oil then it self goes OFF. Investigate and found the Return oil temperature of waste oil is not increasing up to the set point. With 2 nd engineer readjust the temperature switch and test and found working satisfactory. Check Thermal oil boiler no. 1 circulating pump, found overload trip activating and unable to run the pump. Check motor insulation and continuity and found satisfactory, disconnect the motor and start the pump from panel and measure the power supply and found one phase missing. Check main power found OK, check main contactor found OK, Check overload relay (motor protection relay) and found defective. Same inform to C/E. we don't have spare on board. As per office instruction preparing the required spare part list for thermal oil boilers, the work is in progress.
22 nd	At Sea	Daily routines check carried out. In CCR PMS computer change power plugs, arrange the portable torch light chargers, repaired 04 Nos. portable VHF chargers, arrange power sockets or portable vhf sets 6 Nos. and secure all of them and put on charge, check antennas of defective VHF's. Temporary made a loop of missing phase on thermal over load relay on thermal oil boiler No. 1. To run the circulating pump. Prepare a report of thermal oil boiler No. 1 and send to the office and waiting for further instructions. Prepare the Boiler requisition has been completed. PMS Update - the work is in progress.
23 rd	At Sea	Daily routines check carried out. Check accommodation and Ballast water tank gas alarm system with C/O and all found working satisfactory. PMS Update - the work is in progress.
24 th	At Sea	Daily routines check carried out. Saturday Routines carried out.



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25 th	At Sea	Daily routines check carried out. Check and found STBD life boat battery power supply was missing, investigate and found the power plug point of the boat is Faulty check and find another female plug and connect on the same position, test and found working satisfactory. Preparing the list with necessary recommendations of PMS system, the work is in progress.
26 th	At Sea	Daily routines check carried out. Preparing the list with necessary recommendations of PMS system, the work is in progress. Lighting repairing/ replacing lamps in accommodation and in E/R the work is in progress.
27 th	At Sea	Daily routines check carried out. Check Refrigeration system and found Vegetable room High temperature alarm, check the unit and found the temperature was ok and the alarm was false alarm, due to ageing effect of the temperature unit. Check all the parameters and found normal, check cable connections and tight all of them, cleaned the dust from the contactors, and finally readjust the alarm settings and found working normal. As per maker advice check thermal oil pump electro-motor current and found 72 Amps. Running current. Same inform to the office. Check Slope Tank High level sensors and test the alarm with C/O all found working satisfactory. Preparing the list with necessary recommendations of PMS system, the work is in progress.
28 th	At Sea	Daily routines check carried out. Check Refrigeration system and found Vegetable room High temperature alarm, check the unit and found the temperature was ok and the alarm was false alarm, OFF the main power supply and remove the Lobby Temperature display and control unit and exchange with vegetable room. Switch on the unit and readjust the relay parameters and found working satisfactory. Repair the portable VHF charger and put in CCR. Preparing the list with necessary recommendations of PMS system, the work is in progress.
29 th	At Sea	Daily routines check carried out. PORT side life raft disembarkation light check and found that the power cable got damage close by to the terminal box, disconnect and remove the damage part of cable, fix new terminal and cable lugs, secure the cable and reconnect, and found satisfactory. STBD life raft – normal out door glass fitting light found corrosive and in very poor condition, disconnect the old light fitting and fix new light fitting, found satisfactory. FWD boson store – found two halogen light fittings was damage, disconnect the old light fittings and fix new light fittings, test and found working satisfactory. Preparing the list with necessary recommendations of PMS system, the work is in progress.
30 th	At Sea	Daily routines check carried out. Checking the spare alarm channel in existing ECR AMS system- the work is in progress. Some drawings we received from yard , scane the drawings and keep a soft copy in the common folder, the work is in progress. Prepare copy of the wiring diagram of new heaters and secure inside their panels. Preparing the list with necessary recommendations of PMS system, the work has been completed.



ANDRIESANU Dumitru
Name Chief Engineer (for Enginer report)

Signature