

CUSTOMER	VESSEL	DATE
Vestland Classic	Balto, passenger vessel	03 July 2023
LOCATION	ENGINEER	PAGES
Lisbon, Spain	Konrad Zagrobelny	1
WORK ORDER / PO	SENCONTROL PROJECT No.	ADDITIONAL NOTES
-	-	Propulsion control trip and fluctuate

SERVICE REPORT

Main purpose of visit

Sencontrol was requested to inspect vessel and check/repair possible problem with propulsion control system. It was reported that main propulsion motor is tripping randomly and system require proper calibration.

Report summary

During visit on board vessel, it was found that vessel engineer perform several attempts to troubleshoot propulsion system. Many calibration points was adjusted without success and without proper response on changes. Same time main control circuit elements was check for conductivity and operation. It was found that several items had bad contacts on control line.

Overvoltage protection relay was replaced. Starting switch (Cam Switch with several layers) was open, cam contacts clean and switch assembled and installed back on place. Not tested.

During investigation and analyses it was found that observation and work performed on main control line (Relays, cam switch) could help of main propulsion motor random trips.

This should be tested during sea trials. Deeper investigation is require.

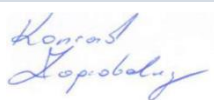
Calibration of propulsion control system require special planned visit. Minimum requirements is to have at least 4 independent voltage signal generators +/- 15V and current signal generator.

Calibration will require at least 2 days long side to identify and preliminary adjust all signals, amplifiers and conditioners before sea trials and final tuning can be done.

System is old design, based on many PCBs with analog processing. System control AC Generator and DC propulsion motor excitation.

Recommendation

Further investigation in regards of random trips and calibration of analog control PCBs.

Start of service	SEnControl Representative	Work accepted on behalf of Customer:
01/07/2023 06:00		
End of service		
02/07/2023 22:00	Signature	Stamp and Signature