



Engineering study for installation of additional sea chest

Vessel : 104183 DWT Bulk carrier

Background

As the vessel is planned to undertake scrubber installation, there is a requirement of additional sea chest fabrication for the intakes and outlets of scrubber

Client engaged us for an engineering study and design solutions to finalize the sea chest position and piping on board.

Scope of assessment

Engineering study to identify the position of additional sea chest and preparation of all necessary drawings in the most cost effective way.

How we achieved?

As the vessel 3D scanned model was not available. Usually in such cases designers undertake 3D scanning and prepare a 3D model to prepare the engineering drawings.

Our vast experience and expertise made us to analyse the existing structural drawings, double bottom drawings, engine room construction drawings etc to propose the suitable location for the additional sea chest.

Once the location was finalized we conducted a feasibility study on board the vessel to finalize the same.

Sea chest drawings, hull penetration, side shell cutting drawings, piping diagrams and other production drawings were prepared and made approved by DNV-GL class.

As the 3D scanning and modeling was not considered for this engineering study there was a huge advantage in savings for the client.

Conclusion

At a very low cost incurred client could complete the engineering study and drawings preparation for the additional sea chest installation.

XShip Design Services

Our team of experienced naval architects and engineers can assist ship owners and operators to meet their dynamic need for changing rules and regulations, charter requirements etc, by providing various design solutions for retrofits and engineering.

Our expertise covers major design services to cope with the exact needs of our clients.

1. Ship Repair & Modification Design
2. Stability Analysis & Modification
3. Regulatory Modifications
4. Ship System Schematic Drawings
5. New building Project Management