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ABSTRACT

On 14.150 DWT container ship vessel shipping company owned archipelago PT.SPIL (Salam Pacific Indonesia Lines) equipped with a heating system to heat the HFO Bunker, HFO Settling, HFO Daily tank and so forth. Which at 14.150 DWT container ship MV.AMAZON heating system has been designed using a steam boiler.

In this final project, to designed and analysis, heat losses and heat output from the initial design using a steam boiler was replaced thermal oil boiler for comparison.

Technical data are used as data to calculate the number of thermal oil needs for the operations of the vessel was then performed selection of thermal oil boiler. After making the selection of thermal oil boiler then count and design that also includes the installation analysis, piping stress, heat losses and heat output for comparison.

From the calculation, design and piping stress analysis, heat losses and heat output of the comparison of the use of steam boiler and thermal oil boiler pipe stress result (pipe deflecibility) for selecting and determining the location of the pipe support, while the analysis of the heat losses and heat output of the selection result design and thickness of the heat insulation material.

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