SLOSHING EFFECT ANALYSIS ON LPG CARGO TANK AGAINST SHIP STABILITY USING CFD (Computational Fluid Dynamic) APPROACH

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ABSTRACT
the problems caused by liquid motion in the cargo tank (sloshing) of LPG ship could interfere the ship's stability. Analysis simulation against sloshing inside the cargo tank of LPG vessels are expected to give an overview the influence of sloshing effect to overall ship's stability. by using CFD (Computational Fluid Dynamic) approach, this simulation variable is cargo tank volume level at 25%, 50% and 75%. Simulation shows that 50% volume level gives the biggest sloshing effect. the analysis against the ship's stability is that those volume level still keep the ship at her stability range.
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