



# The earlier, the better

Why GL NoiseReview for merchant vessels make sense



# More for less

Noise is a critical factor on all merchant vessels. It can be more than just annoying. Exposure to excessive noise levels over a sustained period can have a negative effect on a crew's performance. If basic errors go undetected during the design stage, it is almost impossible to correct them later – and if it is possible, it is often very expensive. That is why Germanischer Lloyd (GL) recommends a noise review at a very early stage. Since the noise review only takes two weeks (providing all the necessary data are available), it is a fast and extremely worthwhile service. If we are asked to issue a GL Statement or Certificate of Compliance regarding Noise and Vibration as an independent body, this noise review is the first key step towards ensuring your vessel fulfils the IMO noise level requirements.

## How you benefit from a noise review

- Yard/design office
  - Avoidance of expensive design modifications before signing building contract with shipping company
  - Assured compliance with required noise limits
  - Avoidance of delivery and production delays
- Shipping company
  - Assured compliance with required noise limits
  - Assured comfort for crew and/or passengers on board
  - Crew well rested – safer operations
  - Improved working conditions attract better qualified personnel
  - Higher resale value of vessel
- Ship investment company
  - More attractive to investors
  - Higher resale value of vessel



## What is a noise review?

GL's noise review is based on a general arrangement plan (GAP), specified noise limits as defined in the building specifications and data relating to the main sources of noise. The GAP is reviewed to check IMO-compliant noise levels in accommodation, workspaces or any other spaces where noise limits apply. GL Acoustics experts identify the critical areas on the vessel in question and carry out a preliminary estimate of the expected overall sound pressure levels in dB(A) for a maximum of four critical rooms or locations. The findings of this noise review indicate whether it is advisable to commission GL to produce a detailed noise level forecast.

## What data are required?

- Building specifications regarding noise and vibration
- Relevant machinery data, e.g. for main diesels, gearboxes and auxiliary diesels (power, speed, rigid/elastic mounting, type and manufacturer)
- Main propeller data (power, speed, diameter, tip clearance, number of blades, etc.)
- Arrangement plan of main and auxiliary exhaust gas pipes and silencers
- Installation plan, including deck covering
- Stowage plan for on-deck reefer containers in bays adjacent to deckhouse
- Lining of walls and ceilings (manufacturer, materials, thickness, weight in kg/m<sup>2</sup>, acoustic data, etc.)

**Around two weeks after GL receives all these data, your noise review will be completed. And our acoustics experience can save you a lot of money.**

For more details of our  
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