Reduced down time - increased operability of machinery and equipment

The Vibration Class is a voluntary class notation comprising an extensive set of vibration criteria for structure, machinery and equipment installed onboard vessels. The limits defined in the notation are based on international standards and DNV GL experience from measurements world wide.

Background
Harmful vibration of machinery components and equipment has generally not been addressed in building specifications or class rules. In order to achieve a positive bottom line for a ship owner, it is necessary to avoid operational disruption. To ensure safe operation, adverse vibration of machinery and equipment should be avoided.

DNV GL Solution
The aim of the Vibration Class is to avoid vibration induced breakdowns by ensuring that the vibration levels for machinery and equipment are within defined limits.

Compliance with the rules are verified through an extensive measurement campaign when the vessel is completed. In addition to the measurements executed in the predefined positions, possible additional vibration issues revealed through the survey will be included.

Vessels complying with the requirements will be awarded the VIBR notation.

Value delivered
With the VIBR notation included in the building specification, a clear definition of vibration limits and measurement procedures will be assured. Thus disputes with regard to interpretation of levels and measuring procedures are avoided. The documentation of vibration levels may also be used as basis for later surveys in connection with docking.

OTHER RELEVANT SERVICES
- Local and global vibration analyses
- Verification measurements
- Troubleshooting
- Comfort Class
- Silent Class