

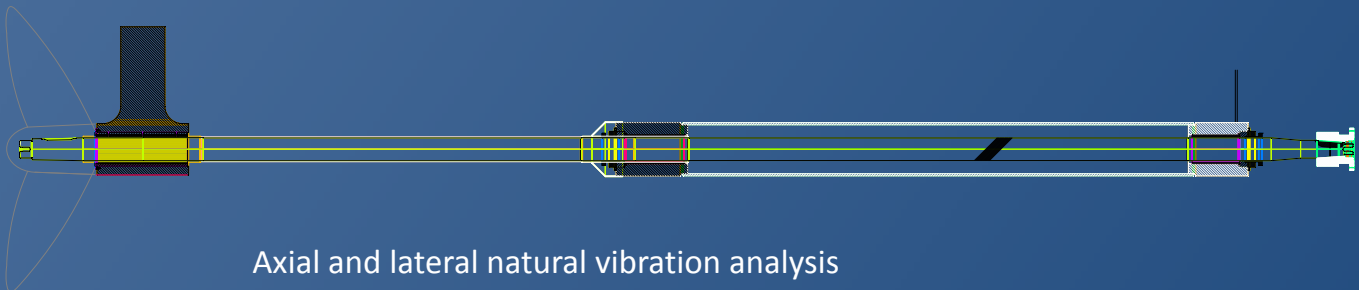
Torsional and lateral Vibration Analysis of a yacht

Lateral & Torsional Vibration Analysis

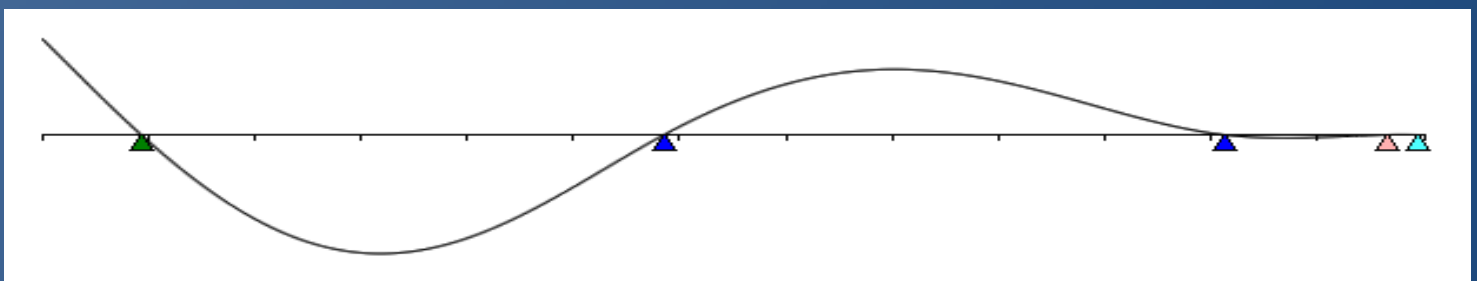


Type:	Passenger vessel
Overall length:	63.87 m
Overall Beam:	12.5 m
Engines:	CUMMINS KTA38 MII
MCR:	895 KW @ 1800 RPM

Vibration analysis due to ship repowering. Axial, lateral and torsional vibration calculations were done by TECNAVIN S.A. to select the correct propulsion elements to avoid vibration problems in ship operation.



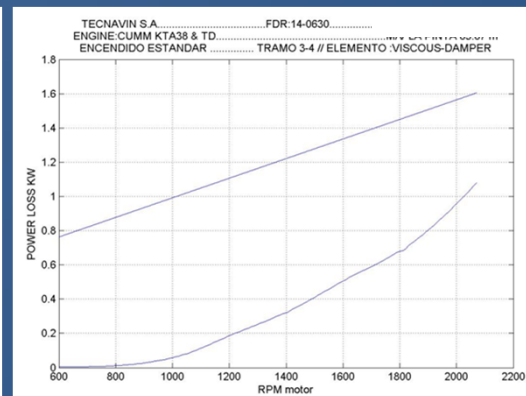
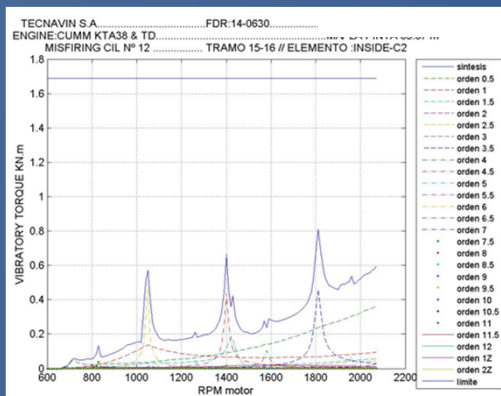
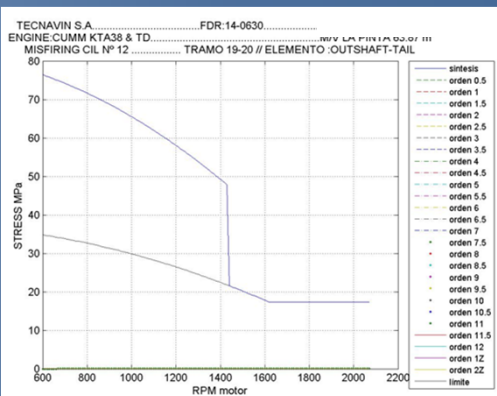
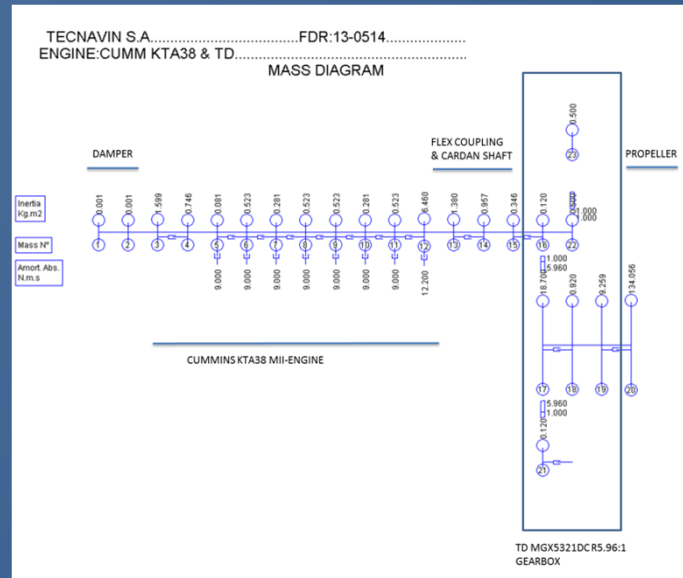
Axial and lateral natural vibration analysis
Calculation show that system work correctly with new propulsion elements.



Torsional and lateral Vibration Analysis of a yacht

Torsional vibration results from
TORCAL software

- Vibratory stresses
 - Vibratory torque
 - Power loss
 - Angular deformation
- Analysis of all propulsion components including engine, damper, couplings, gearbox, shafts, etc.
 - Standard analysis and misfiring condition
 - Propeller coupled and uncoupled analysis.
 - Analysis with Classification Societies requirements.
 - Selected propulsion elements are appropriate for this propulsion system.



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