

## ALTERNATOR OVERHAUL

### STEP 1 - Situation

Requested an Alternator Overhaul for the Guanaterme vessel.

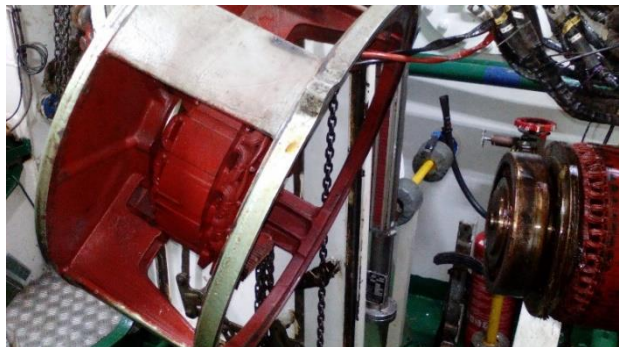
### STEP 2 - Challenge

No. 2 Alternator Overhaul; Replace of bearings; Rotor and stator cleaning; Coupling diodes checking.



### STEP 3 - Action

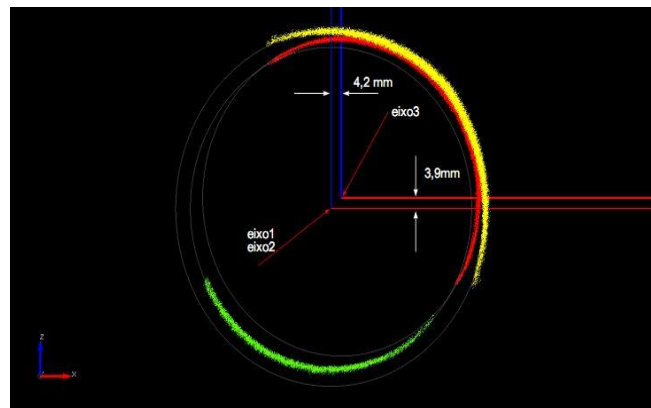
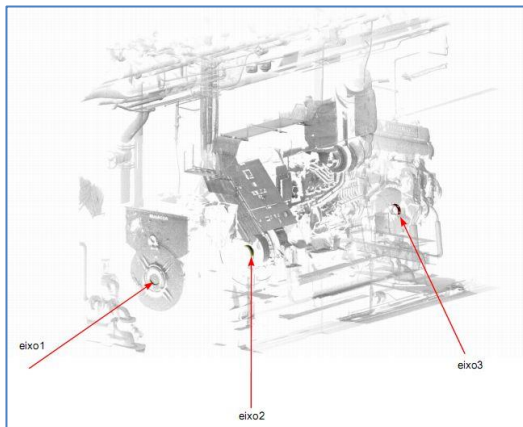
- 1 No. 2 Alternator Overhaul, replace bearings, rotor and stator cleaning, coupling diodes checking.



- 2 Repair of bearing housing, filling with Rototec and machining surface;



- 3 Removing and installing alternator cover;
- 4 Supply of the resistor for the alternator;
- 5 Perform check-up laser system for detecting the necessary adjustments;
- 6 Alignment shaft by our team, according to the results of laser measurements;
- 7 Perform final measurement after alignment, reinstall all components.



Misalignment of 3,9mm in the axis 3 and longitudinal 4,2 mm



Alignment: 2mm in axis 3



Alignment: 0,5mm in axis 2

## STEP 4 - Results

The alignment problem was originated by a unscrewed blocking bolt that affected the stability of the system. This cause an increase of the natural vibration, causing the alignment problem. Situation successfully corrected. All works have been executed as required.

