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VIBRATION MARINE

Vibration diagnostic report **7634U3-2025**		
Project: **Hafnia Amazonite** IMO no: **9719769** Ordered by: **OSM Thome**	Date of measurement: **2025-11-18 - 2025-11-19**	Place of measurement: **During normal operation**

Measurement condition

Measurements were taken during normal operating condition.

Results presentation

Measured values are presented in the table below. Each machine if applicable is separated for driver (el. motor, diesel engine, etc.) and driven unit (pump, compressor, etc.). *First column* of the table consist name of the equipment. *Second column* contains the highest value of vibration velocity measured on the equipment in all measurement points. *Third column* contains classification of the vibration class according to proper ISO standard and other normative documents. Classification depends on highest reading of measured equipment only. *Fourth column* contains additional readings of enveloped value of acceleration, which is helpful in detection of early stage of bearing wear. *Fifth column* contains remarks and suggestions based on the analysis of vibration signal. This column can be taken as the final conclusion about machine condition. If cell is empty, it means that there is no existing problem or defect shown in vibration signal.

Vibration standards

Following standards may applied for assessment:

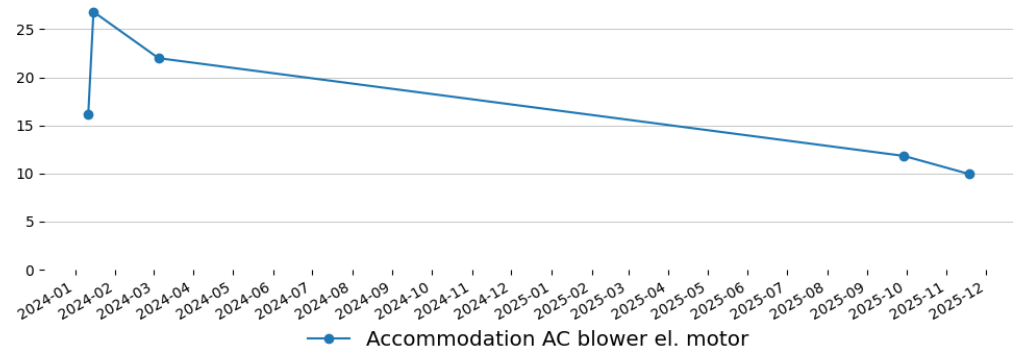
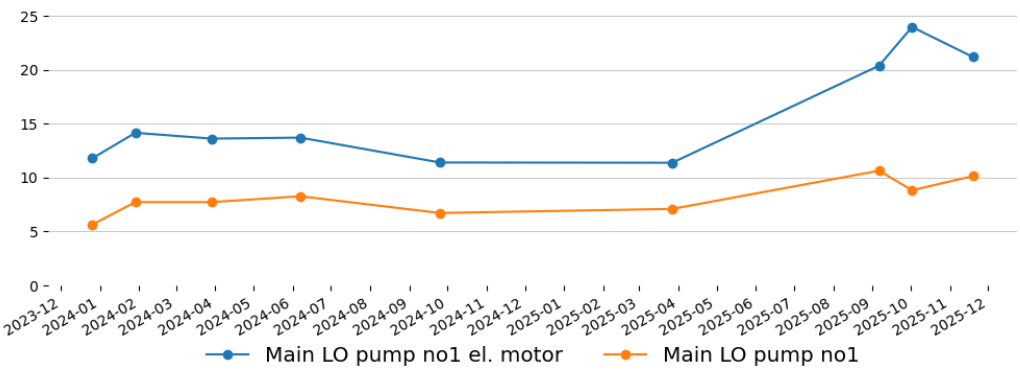
ISO 10816-7	Mechanical vibration — Evaluation of machine vibration by measurements on non-rotating parts — Part 7: Rotodynamic pumps for industrial applications, including measurements on rotating shafts
ISO 20816-1	Mechanical vibration — Measurement and evaluation of machine vibration — Part 1: General guidelines
ISO 20816-3	Mechanical vibration — Measurement and evaluation of machine vibration — Part 3: Industrial machinery with a power rating above 15 kW and operating speeds between 120 r/min and 30 000 r/min

Legend according to vibration class

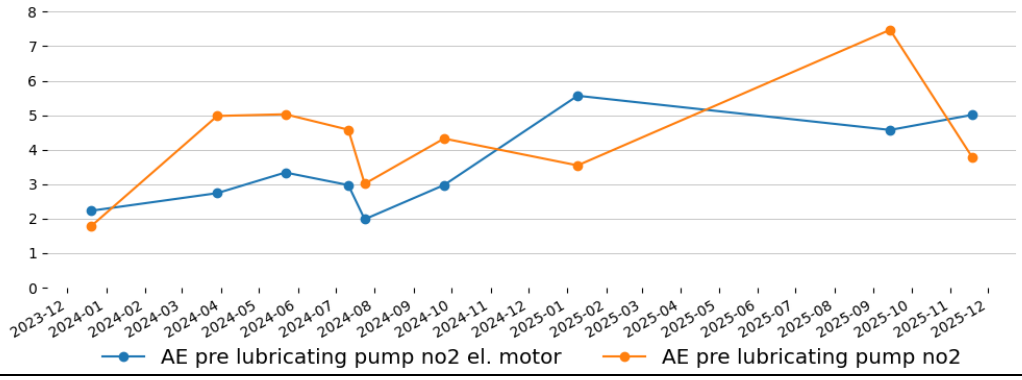
Cl. A	Newly commissioned
Cl. B	Unrestricted
Cl. C	Restricted long-term operation
Cl. D	High probability of damage, action required
Cl. D	Vibrations over the limits but actions are not required.

Results

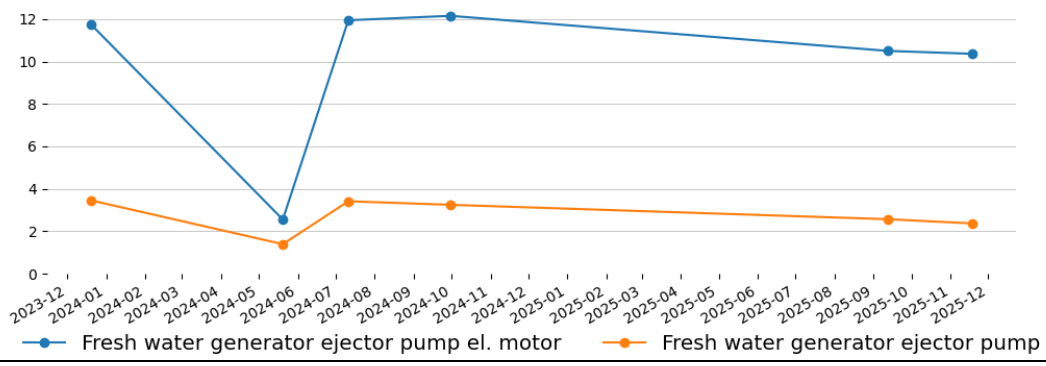
In table are presented only readings with max. RMS results for each device equipment:

Machine name	Velocity RMS (mm/s) Max	ISO standard	Bearing Envelope 0-Peak (m/s2) Max	Remarks and suggestions
DECK				
Accomondation AC blower				
Accommodation AC blower el. motor	9.947	Cl. D	21.195	Vibration slightly reduced from last reading but still over the limit. Visible signal is related with operation of the fan. Please advise if fan balancing is possible. **Measurement should be done every month to control bearing condition until fan will be balanced.**
				
ENGINE ROOM				
ME LO pumps				
Main LO pump no1 el. motor	21.219	Cl. D	6.499	Please advise if recommendation from report 7634U-2025 were performed: Vibration still over the limit after work done. 1. Condition of coupling should be checked. **2. Next measurement should be done after performing work (please send with feedback). Maintenance job should be done up to date 2025-10-19.**
Main LO pump no1	10.156	Cl. D	6.609	Please advise if recommendation from report 7634U-2025 were performed: 1. Condition of coupling should be checked. **2. Next measurement should be done after performing work (please send with feedback). Maintenance job should be done up to date 2025-10-19.**
				

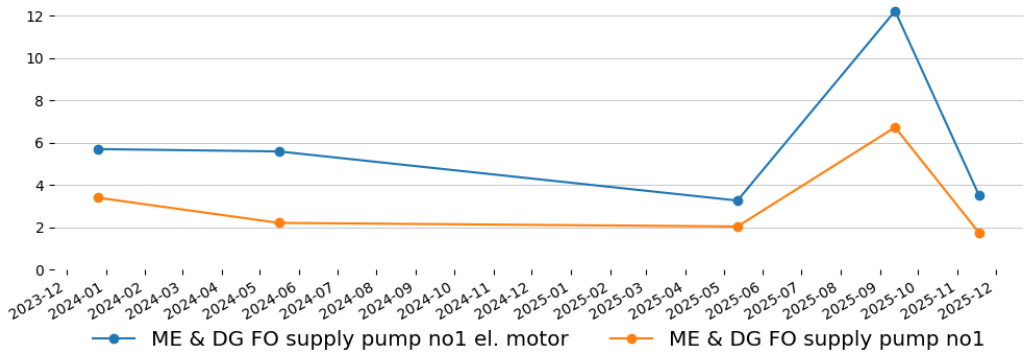
AE Pre LO pumps				
AE pre lubricating pump no2 el. motor	5.008	**Cl. D**	42.352	High signal only in one point and main signal is related with operation of the pump and environment. No signs of deterioration. Next measurement should be done according to pump's interval.
AE pre lubricating pump no2	3.793	Cl. C	46.562	Please advise if recommendation from report 6006U5-2024 were performed: 1. Condition of coupling should be checked. **2. Next measurement should be done after performing work (please send with feedback). Including el. motor. Maintenance job should be done up to date 2025-10-19.**



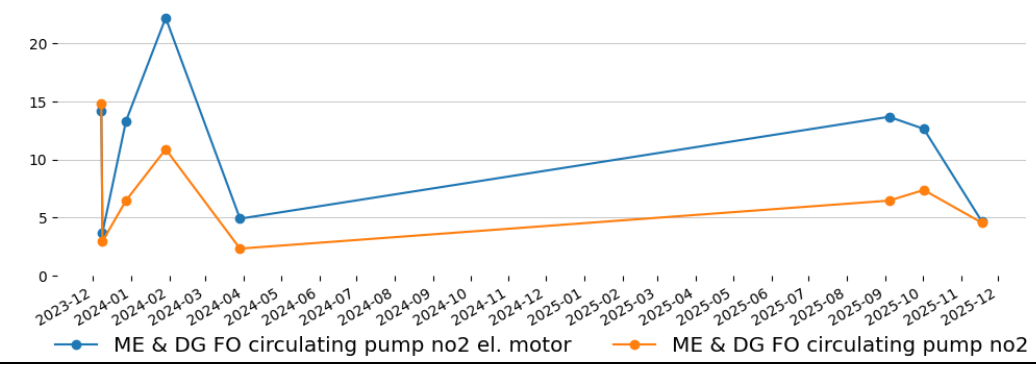
Fresh water generator ejector pump				
Fresh water generator ejector pump el. motor	10.368	Cl. D	13.071	Please advise if recommendation from report 6298U-2024 was done: 1. Condition of coupling should be checked. 2. All bolts responsible for stiffness of structure should be checked/retightened. Additionally, please advise if recommendation from report 6616-2024 was done: bearings should be replaced. **Next measurement should be done 50 RHs after performing work (please send with feedback). Including pump. Maintenance job should be done up to date 2025-10-19.**
Fresh water generator ejector pump	2.368	Cl. A	12.407	



ME & DG FO supply pumps				
ME & DG FO supply pump no1 el. motor	3.513	Cl. C	23.262	Please advise if recommendation from report 7634U-2025 were performed: 1. Condition of coupling should be checked. 2. All bolts responsible for stiffness of structure should be checked/retightened. **3. Next measurement should be done after performing work (please send with feedback). Maintenance job should be done up to date 2025-10-19.**
ME & DG FO supply pump no1	1.742	Cl. B	19.053	



ME & DG FO circulation pumps				
ME & DG FO circulating pump no2 el. motor	4.654	Cl. D	91.647	Please advise if recommendation from report 7634U-2025 were performed: 1. Alignment between el. motor and pump should be checked. 2. Bearings caps should be checked for looseness. **3. Next measurement should be done after performing work (please send with feedback). Maintenance job should be done up to date 2025-10-26.**
ME & DG FO circulating pump no2	4.549	Cl. D	59.338	Please advise if recommendation from report 7634U-2025 were performed: 1. Alignment between el. motor and pump should be checked. **2. Next measurement should be done after performing work (please send with feedback). Maintenance job should be done up to date 2025-10-26.**



Measurement equipment:

Technical data	
Maker:	Info Marine
Type:	MarVib DC750
Serial number:	7507444
Measuring range:	2Hz-30kHz / RPM = 60-20000
Indication error:	± 0,5%

Equipment is calibrated, certificate for verification - if required.

Ship type: Chemical/Oil Tanker	**Main dimensions:** Length(b.p).....184,00 m Breadth(B.).....27,00 m
Sea depth: Least twice times greater than Vessel draught	
Measurement method: According to standard ISO 10816 : - procedure No. 2 Measurement report	

Summary

Next measurements should be done in three month period to obtain trend value for each equipment, in some cases even one month period is preferable.

This report is prepared in good faith based on measurement diagnostic done on available running rotary machine and documentation submitted.

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