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VIBRATION MARINE

Vibration diagnostic report **8002U3-2026**		
Project: **Siem Cicero** IMO no: **9762534** Ordered by: **Siem Ship Management**	Date of measurement: **2026-02-26**	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 and second column* of the table consist PMS number and name of the equipment. *Third column* contains the highest value of vibration velocity measured on the equipment in all measurement points. *Fourth column* contains ISO classification limit. *Fifth column* contains classification of vibration class according to proper ISO standard and other normative documents. Classification depends on highest reading of measured equipment only. *Sixth column* contains additional readings of enveloped value of acceleration, which is helpful in detection of early stage of bearing wear. *Seventh 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

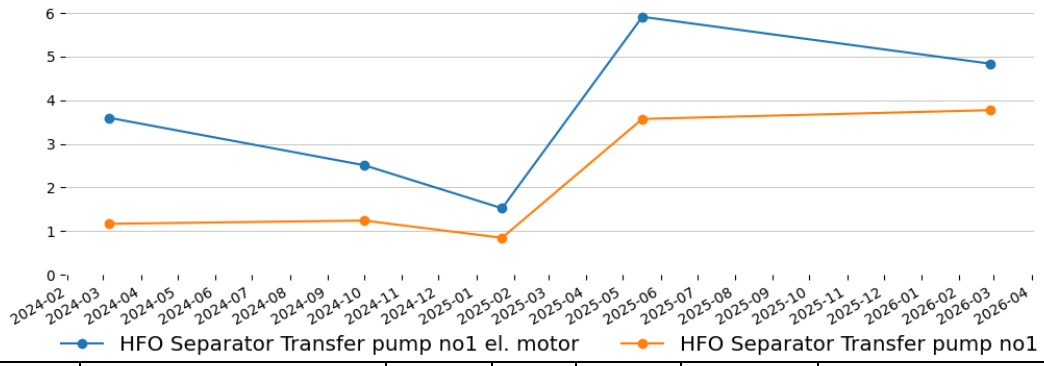
Legend according to vibration class

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.

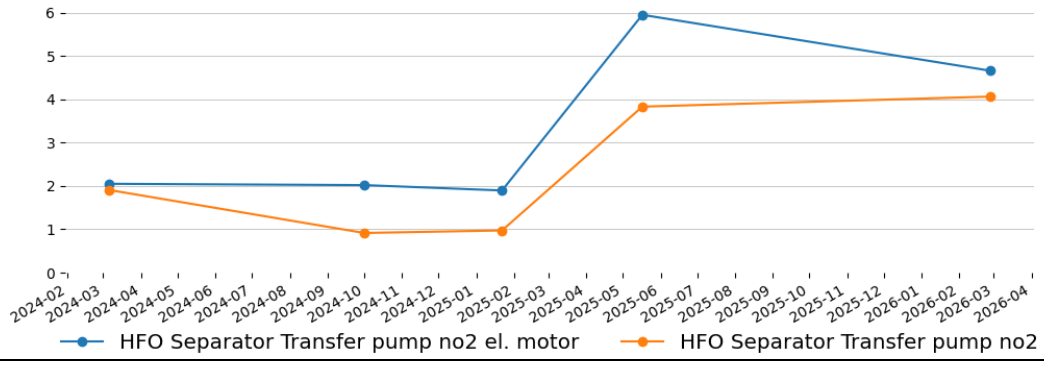
Results

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

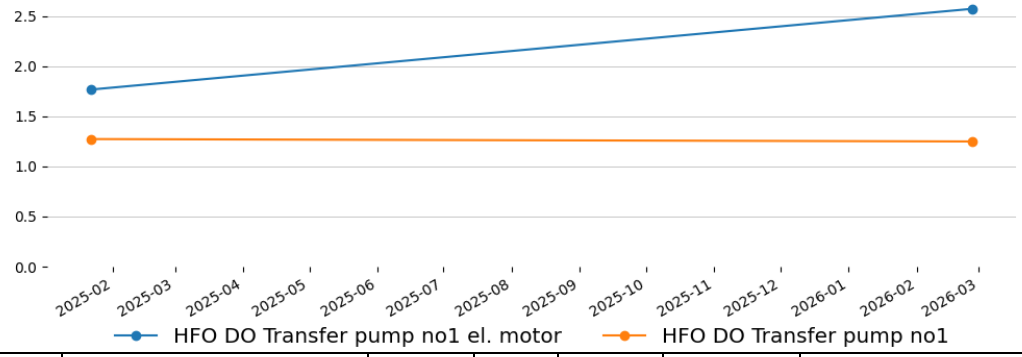
PMS	Machine name	Velocity RMS (mm/s) Max	ISO limit	ISO standard	Bearing Envelope 0-Peak (m/s2) Max	Remarks and suggestions
			ENGINE ROOM			
Transfer pump						
-	HFO Separator Transfer pump no1 el. motor	4.837	4.5	**Cl. D**	20.233	High signal comes from environment. Trend slightly decreased. No signs of deterioration. Next measurement should be done according to regular interval.
-	HFO Separator Transfer pump no1	3.771	4.5	Cl. C	15.119	



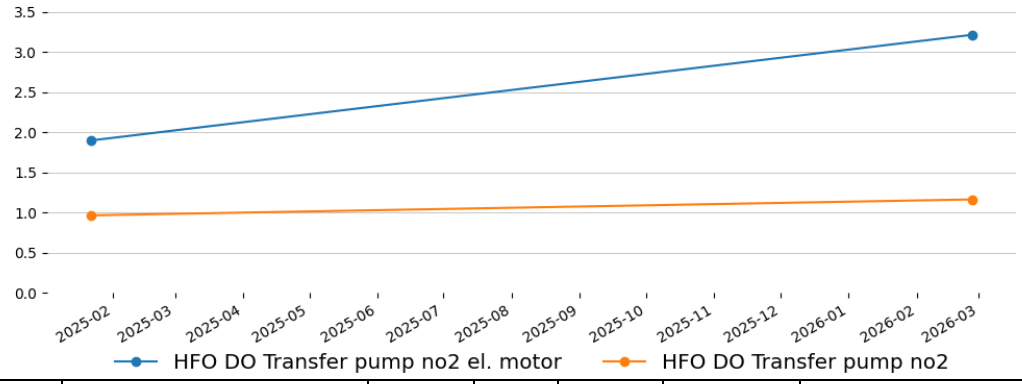
-	HFO Separator Transfer pump no2 el. motor	4.662	4.5	**Cl. D**	26.777	High signal only in one point comes from environment. Trend slightly decreased. No signs of deterioration. Next measurement should be done according to regular interval.
-	HFO Separator Transfer pump no2	4.063	4.5	Cl. C	13.464	



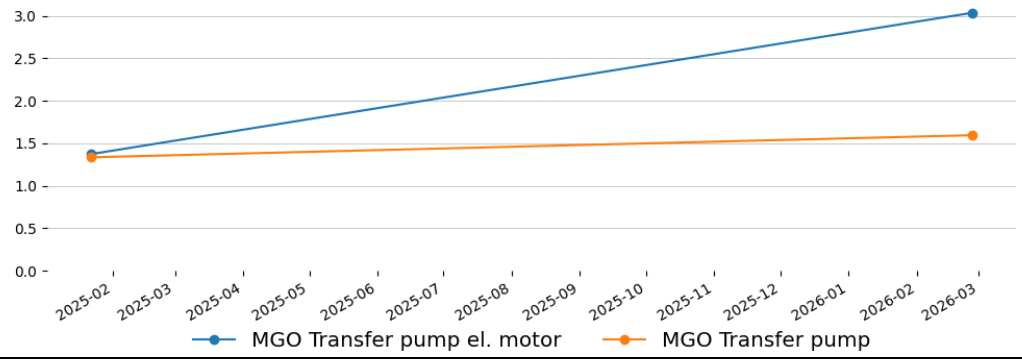
701.301.81	HFO DO Transfer pump no1 el. motor	2.571	4.5	Cl. B	4.739	
701.301.00	HFO DO Transfer pump no1	1.248	4.5	Cl. B	8.876	



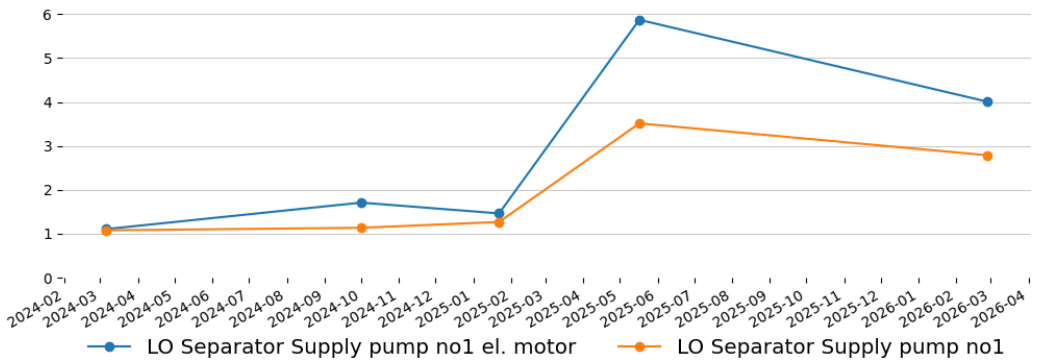
701.311.81	HFO DO Transfer pump no2 el. motor	3.213	4.5	Cl. C	11.809	
701.302.00	HFO DO Transfer pump no2	1.161	4.5	Cl. B	15.833	



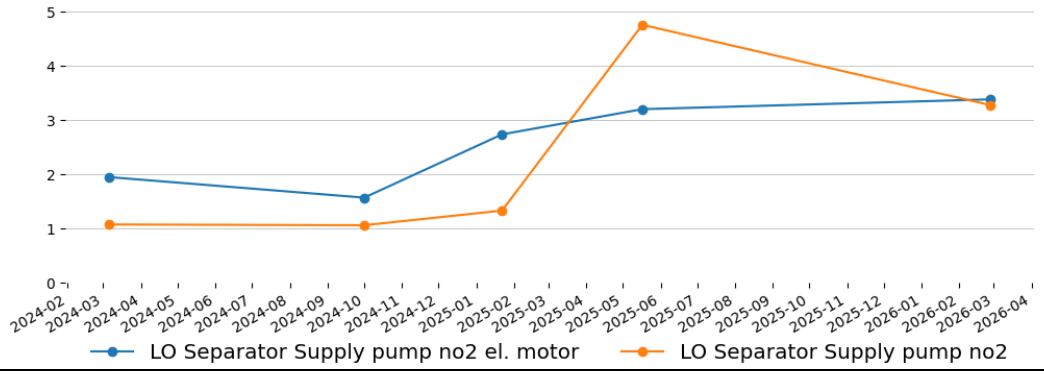
701.303.00.82	MGO Transfer pump el. motor	3.035	4.5	Cl. C	36.781	
701.303.00	MGO Transfer pump	1.594	4.5	Cl. B	28.846	



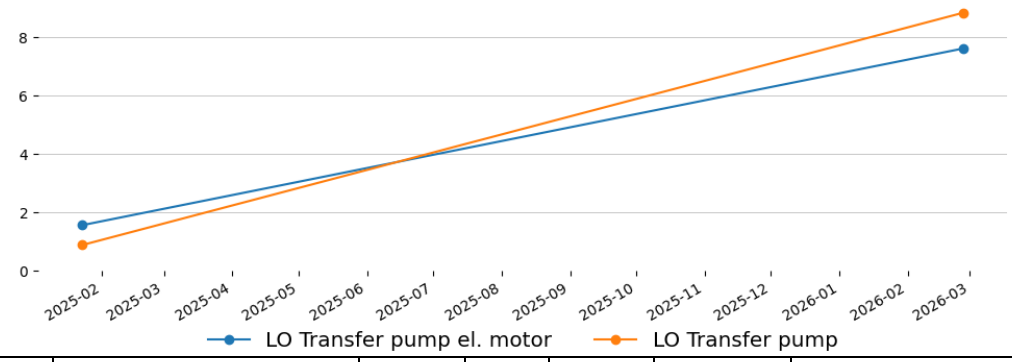
-	LO Separator Supply pump no1 el. motor	4.010	4.5	Cl. C	19.745	
-	LO Separator Supply pump no1	2.788	4.5	Cl. B	14.667	



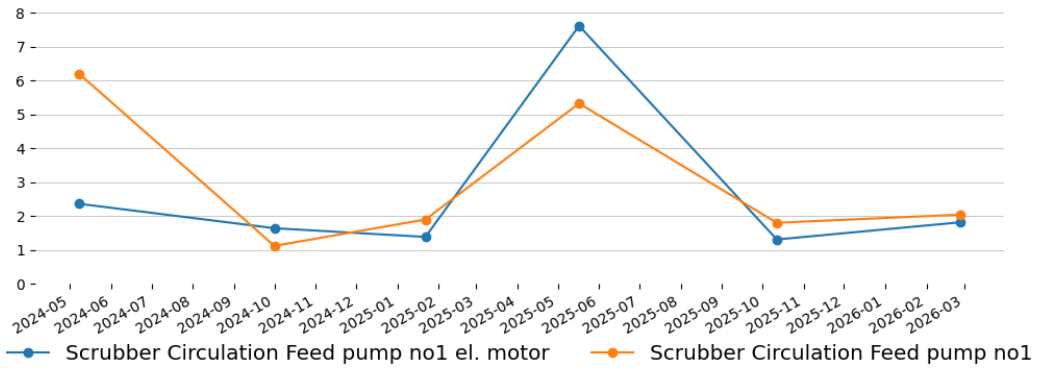
-	LO Separator Supply pump no2 el. motor	3.382	4.5	Cl. C	12.185	
-	LO Separator Supply pump no2	3.278	4.5	Cl. C	8.537	



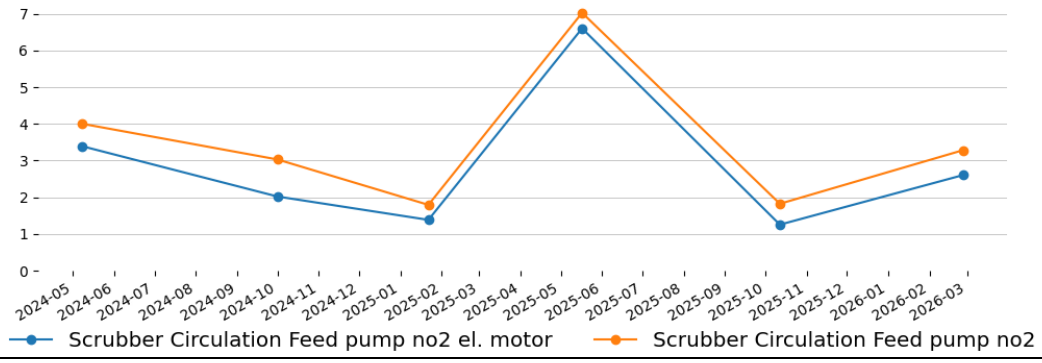
711.301.81	LO Transfer pump el. motor	7.618	4.5	Cl. D	102.033	1. Condition of coupling should be checked. 2. All bolts responsible for stiffness of structure should be checked/retightened. 3. Bearings seating on shaft and in bearing housings should be inspected. **4. Next measurement should be done after performing work (please send with feedback). Maintenance job should be done up to date 2026-03-31.**
711.301.00	LO Transfer pump	8.843	4.5	Cl. D	189.999	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 2026-03-31.**



744.002.15.02.01	Scrubber Circulation Feed pump no1 el. motor	1.811	7.1	Cl. A	62.731	
744.002.15.02	Scrubber Circulation Feed pump no1	2.038	8.5	Cl. A	69.050	



744.002.15.03.01	Scrubber Circulation Feed pump no2 el. motor	2.603	7.1	Cl. B	82.589	
744.002.15.03	Scrubber Circulation Feed pump no2	3.282	8.5	Cl. B	38.248	



Measurement equipment:

Technical data	
Maker:	Info Marine
Type:	MarVib DC750
Serial number:	7503444
Measuring range:	2Hz-30kHz / RPM = 60-20000
Indication error:	± 0,5%

Equipment is calibrated, certificate for verification - if required.

Ship type: Vehicles Carrier	**Main dimensions:** Length(b.p).....199,90 m Breadth(B.).....32,26 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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