

MACHINERY MAINTENANCE PLANNING REPORT



KONGSBERG

Machine Information

Machinery Identification: Rotating Machine	
Serial Number: 53	Model No.: AX503
Manufacturer: Kongsberg	Date:
Department/Location: Mechanical / Mahape	

Data Summary

Parameter	Value
Frequency	
Amplitude	
Radius	
Mass	
Unbalance Force	
Temperature	
Operating Hours	
Severity Index	
Lifespan	

Reported Faults/Errors

Fault Type	Shaft Unbalance
Date of Occurance	
Time of Occurance	

Severity Mapping

Predicted Mass (g)	Severity	Meaning
0 - 4	0	Negligible
5 - 9	1	Minor
10 - 24	2	Moderate
25 - 39	3	Significant
40 - 54	4	Serious
55 - 65	5	Severe
Above 65	6	Critical

Recommendations and Repair Suggestions

Recommendation: Reduce operating load and check alignment of the shaft. Perform dynamic balancing to reduce unbalance force.

Repair Suggestion: Add or remove mass from the shaft to counteract the imbalance. Regularly check the accelerometer readings and monitor temperature closely.

Maintenance Schedule Based on Severity

Severity Level	Description	Inspection/Action Required
0-1	Negligible/Minor	Perform routine visual inspections every 3 months.
2	Moderate	Conduct detailed inspections every 2 months and check unbalance force.
3	Significant	Perform dynamic balancing every month.
4	Serious	Immediate inspection required. Dynamic balancing and shaft realignment within the week.
5	Severe	Immediate action required. Halt operation and replace the shaft if needed.
6	Critical	Immediate shutdown of the machine and full maintenance, including rotor replacement.

Summary

The rotating machine exhibited unbalance due to uneven mass distribution on the shaft. Severity levels indicate potential issues ranging from minor to critical. Regular maintenance and balancing of the rotor are essential to prolong the machine's lifespan and ensure smooth operation. Immediate corrective measures should be taken to avoid further damage and minimize downtime.

Remark:

Sign off:

Maintenance Engineer : Date & Time:	Manager: Date & Time:
Operator: Date & Time:	Inspector: Date & Time: