

MACHINERY MAINTENANCE PLANNING REPORT



KONGSBERG

Machine Information

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|--|------------------------|
| Machinery Identification: Rotating Machine | |
| Serial Number: 53-59 | Model No.: AX503-AX509 |
| Manufacturer: Kongsberg | Date: |
| Department/Location: Mechanical / Mahape | |

Data Summary

| Machine No. | Fault Type | Frequency | Amplitude | Mass | Radius | Unbalance Force | Temperature | Operating Hours | Severity | Lifespan | Predicted Mass | Predicted Lifespan | Predicted Unbalance Force | Predicted Severity Numerical |
|-------------|------------|-----------|-----------|------|--------|-----------------|-------------|-----------------|----------|----------|----------------|--------------------|---------------------------|------------------------------|
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Severity Mapping

| Predicted Mass (g) | Severity | Meaning |
|--------------------|----------|-------------|
| 0 - 4 | 0 | Negligible |
| 5 - 9 | 1 | Minor |
| 10 - 24 | 2 | Moderate |
| 25 - 39 | 3 | Significant |

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|----------|---|----------|
| 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: |