CONDITION MONITORING PROGRAM REPORT

Report reference:

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Report written by: Ashish Sharma

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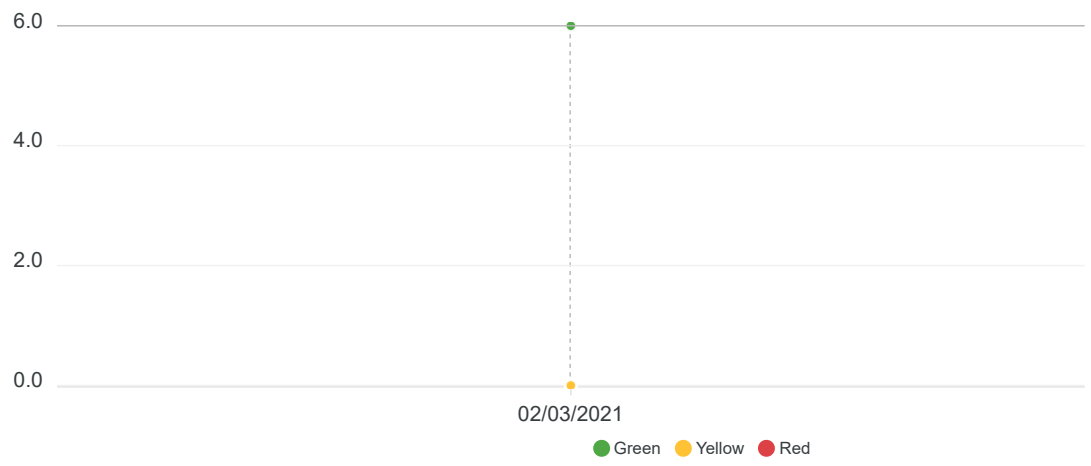
PLANT ASSET HEALTH HISTORY



Warning 0.00%
0 Machines

Caution 0.00%
0 Machines

Acceptable 100.00%
6 Machines

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TECHNICAL INFORMATION

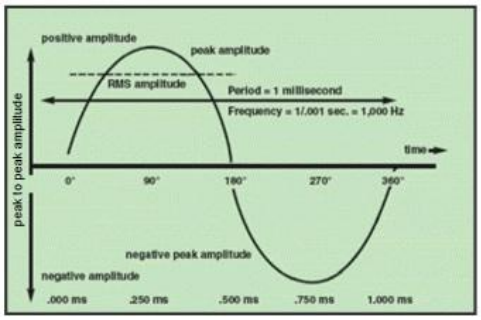
SUMMARY OF SURVEY ACTIVITIES

To carry out Condition Monitoring Survey using Vibration Analysis at Kelloggs Rice, . Data collection was carried out on all available plant as per contract. Where equipment was found to be out of service and independent operation was unavailable this has been noted. Where possible rotation speeds (rpm) or relevant line or production speeds have been recording for trending purposes.

MEASUREMENTS POSITIONS

On all equipment the velocity measurements are taken in the vertical, horizontal and axial positions. Acceleration readings are taken in two radial positions, typically vertical and horizontal. On a machine train readings will usually be taken in the following sequence; Motor Non Drive End Bearing, Motor Drive End Bearing, any Support Bearings, Driven Unit Drive End Bearing and Driven Non Drive end Bearing. For vertically mounted units a convention will be set on the first survey and marked for future continuity.

VIBRATION MAGNITUDE UNITS



- **Vibration Velocity in mm/s RMS** (Root Mean Square 0.7071 of the Peak value).
- **Vibration Acceleration in 'g' peak** (Acceleration of gravity 'g', is the acceleration produced by the force of gravity at the earths surface. By international agreement the value of 9.81m/s squared has been chosen as the standard).
- **Vibration Displacement in microns peakto-peak**

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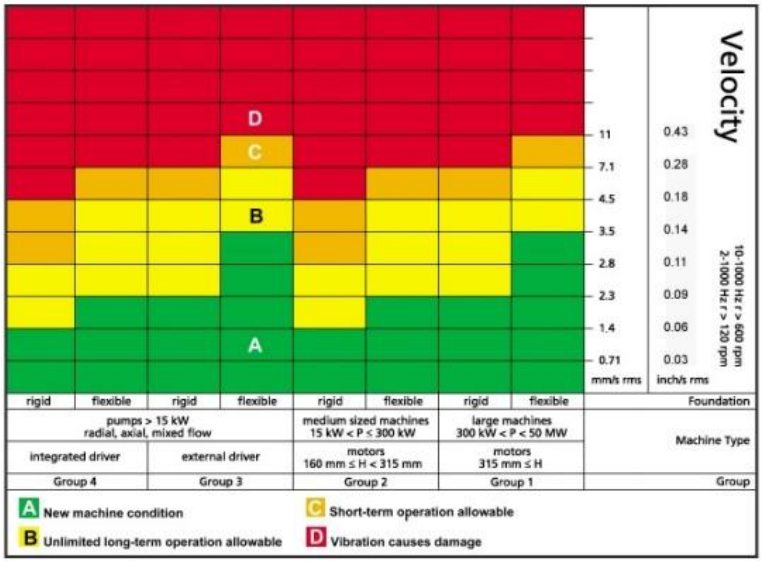
ALARM LEVELS

Alarm levels are based on the standard ISO 10816-3 shown below, (relevant to normal steady state operation at the machine rated speed) unless otherwise stated by the manufacturer and agreed when setting up the survey. Trending of the unit over time may allow the alarm levels to be reset at levels more appropriate to that specific unit or machine system.



WARNING ZONE D	Vibration values in this zone are normally considered to be of sufficient severity to cause damage to the machine
CAUTION ZONE C	Machines with vibration in this zone are normally considered unsatisfactory for long term operation. Generally they may be operated for a limited period in this condition until remedial action can be taken
ACCEPTABLE ZONE B	Machines in this zone are normally considered acceptable for long term unrestricted operation
ACCEPTABLE ZONE A	New Machine Systems.

SUMMARY OF MACHINERY CONDITION

For ease of use this report will combine Zones A & B as ACCEPTABLE with a GREEN traffic light condition, Zone C as CAUTION with an amber traffic light condition and Zone D as WARNING with a RED traffic light condition.

WARNING	Vibration levels for this machine have breached the HIGH ALARM level. This could potentially be of sufficient severity to cause damage to the machine. Immediate action is recommended or reduced use until action is possible.
CAUTION	Vibration levels for this machine have breached the LOW ALARM level. Machines with vibration in this zone are normally considered unsatisfactory for long term operation. Generally they may be operated for a limited period in this condition until remedial action can be taken. Further Analysis may be required to give an accurate diagnosis, use of alternative Condition Monitoring technologies may
ACCEPTABLE	Machines in this zone are normally considered acceptable for long term unrestricted operation.

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MACHINES SURVEYED

AREA OF PLANT

SURVEY ID	MACHINE NAME	MAIN FAULT	ALARM STATUS
Not Found Data			

MACHINES IN ALARM

No Data Found

ASSET HISTORY

CMP NO	AREA	ASSET	Oct-2020	Nov-2020	Dec-2020	Jan-2021	Feb-2021	Mar-2021
CMP1	AREA1	ASSETID1						
CMP2	AREA2	ASSETID2						
CMP3	AREA3	ASSETID3						
CMP4	AREA4	ASSETID4						
CMP5	AREA5	ASSETID5						
CMP6	AREA6	ASSETID6						