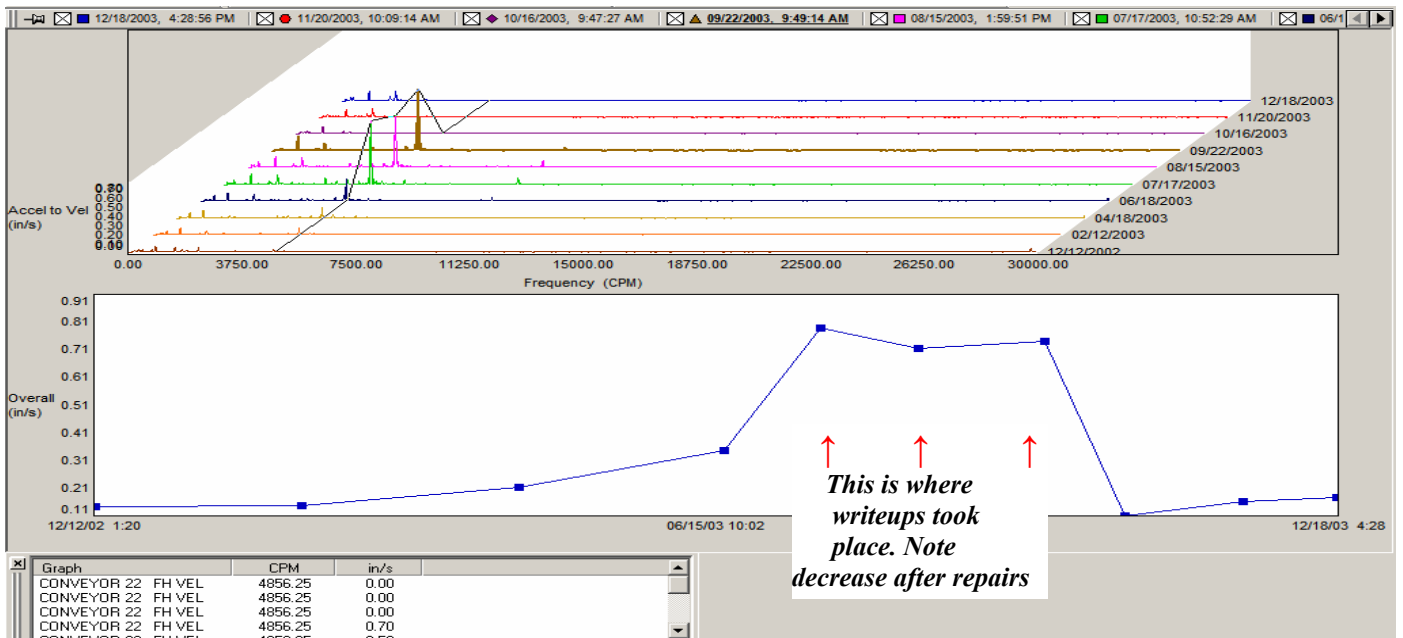


Ask yourself if information such as the included examples below would help you manage your maintenance efforts. Our clients would not want to be without their program and the information we provide regarding the health of their machinery. We identify and prioritize the problems and offer a recommended action to correct the issue.

# SAMPLE REPORT

## MACHINERY VIBRATION REPORT

EQUIPMENT NAME	PROBLEM DESCRIPTION	PRIORITY
Conveyor 22 (10000122)	HFD levels continue to trend upward at output of gearbox, vibration at suspected gearmeshing frequency of the output gearset continues to increase. Suspect extensive wear in output gearset. See attachment for waterfall spectral plot. <a href="#">No current oil sample noted online.</a>	High
RECOMMENDED ACTION:	Replace / recondition gearbox promptly.	
<i>Problem Found / Action Taken</i>	Broken tooth / wear on pinion of output gearset.	



# SAMPLE REPORT

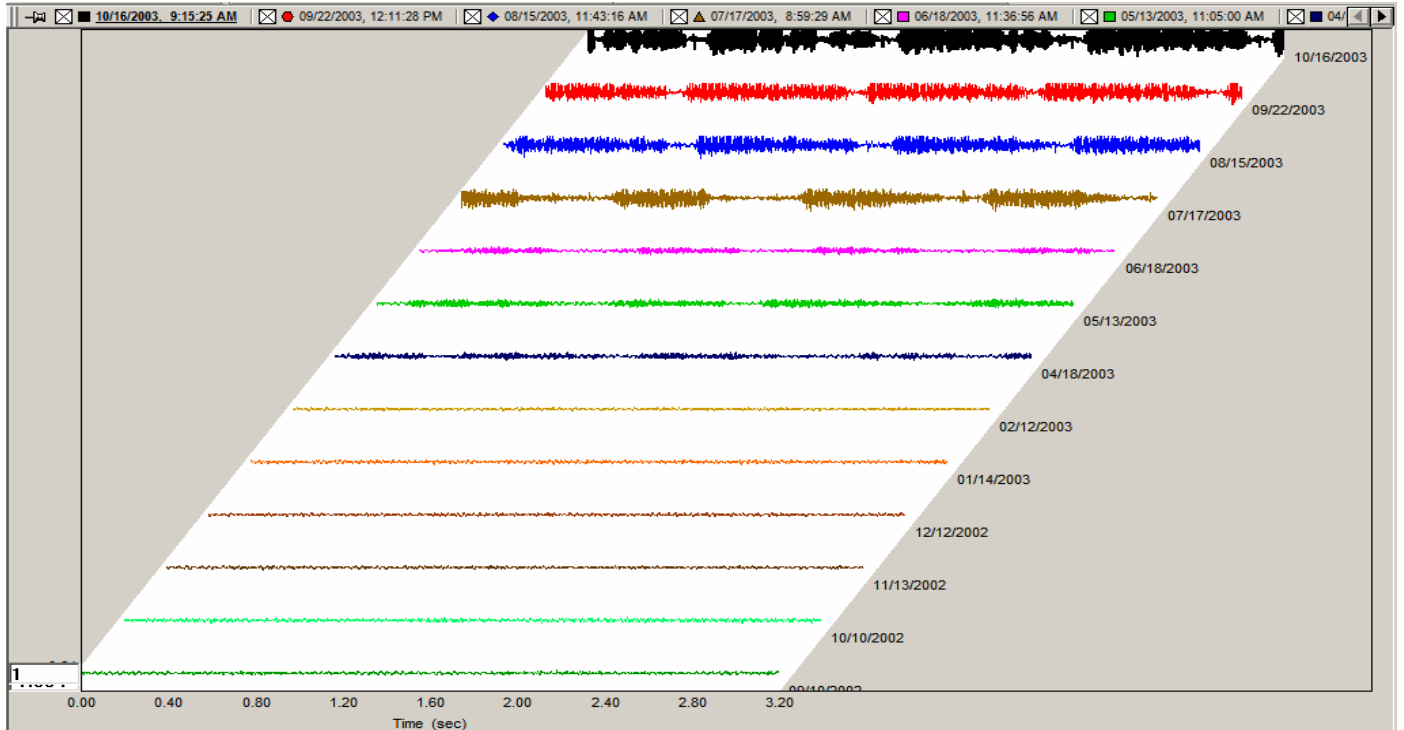
## MACHINERY VIBRATION REPORT

EQUIPMENT NAME	PROBLEM DESCRIPTION	PRIORITY
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<b>Primary Conveyor Gravity Takeup, Upper Bend Roll</b>	Continue to note possible wear in spectral data of non-drive end upper bend bearing / roll. Impacting remains in time waveform data at shaft speed. See attachment for waterfall of time waveform.	<b>Med-High</b>
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RECOMMENDED ACTION: Check shaft and roll for possible cracks / fatigue, bearing should be checked for excessive clearance / wear.

<i>Problem Found / Action Taken</i>	Bushing broke. Changed bushing.
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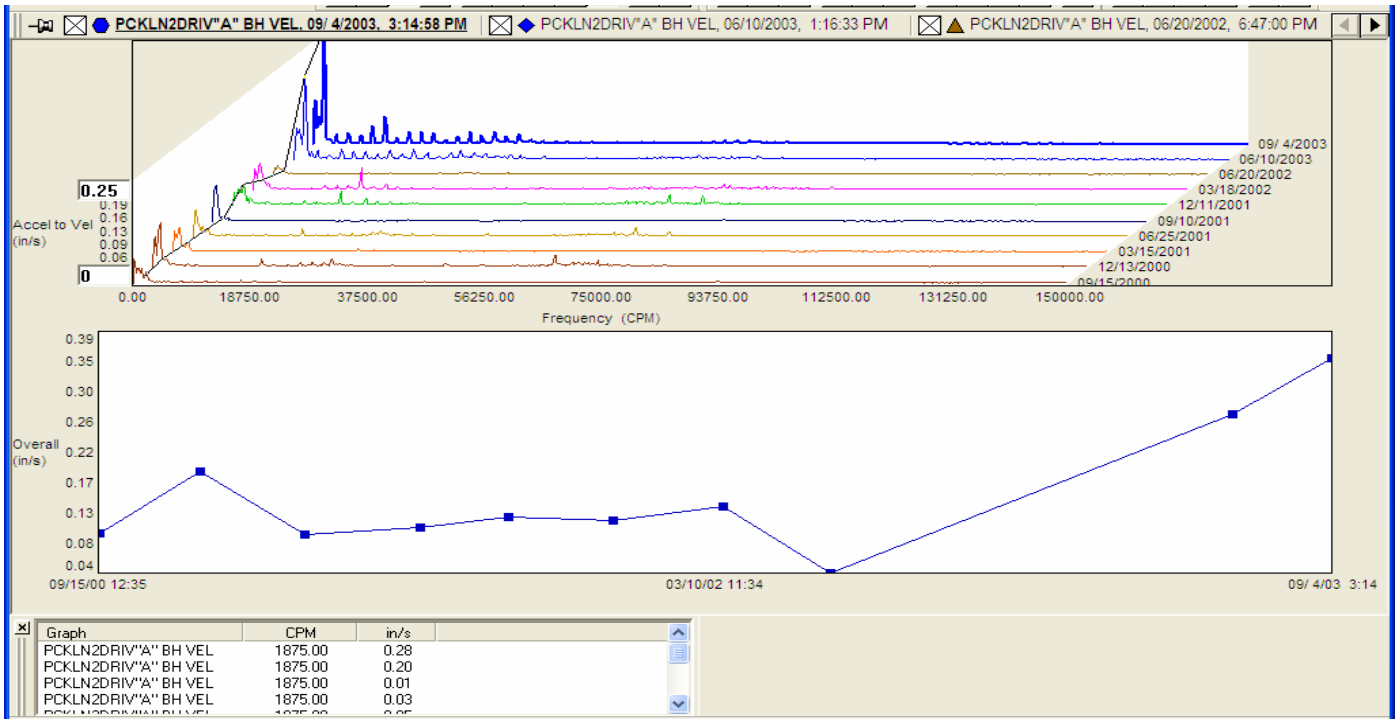


# SAMPLE REPORT

## MACHINERY VIBRATION REPORT

EQUIPMENT NAME	PROBLEM DESCRIPTION	PRIORITY
Pick Line 2 "A" Drive	Continue to note looseness in spectral data. See attachment for waterfall spectral plot.	Medium
RECOMMENDED ACTION:	Inspect coupling for wear or damage. Check for loose play in motor and also at input of gearbox.	

*Problem Found / Action Taken*

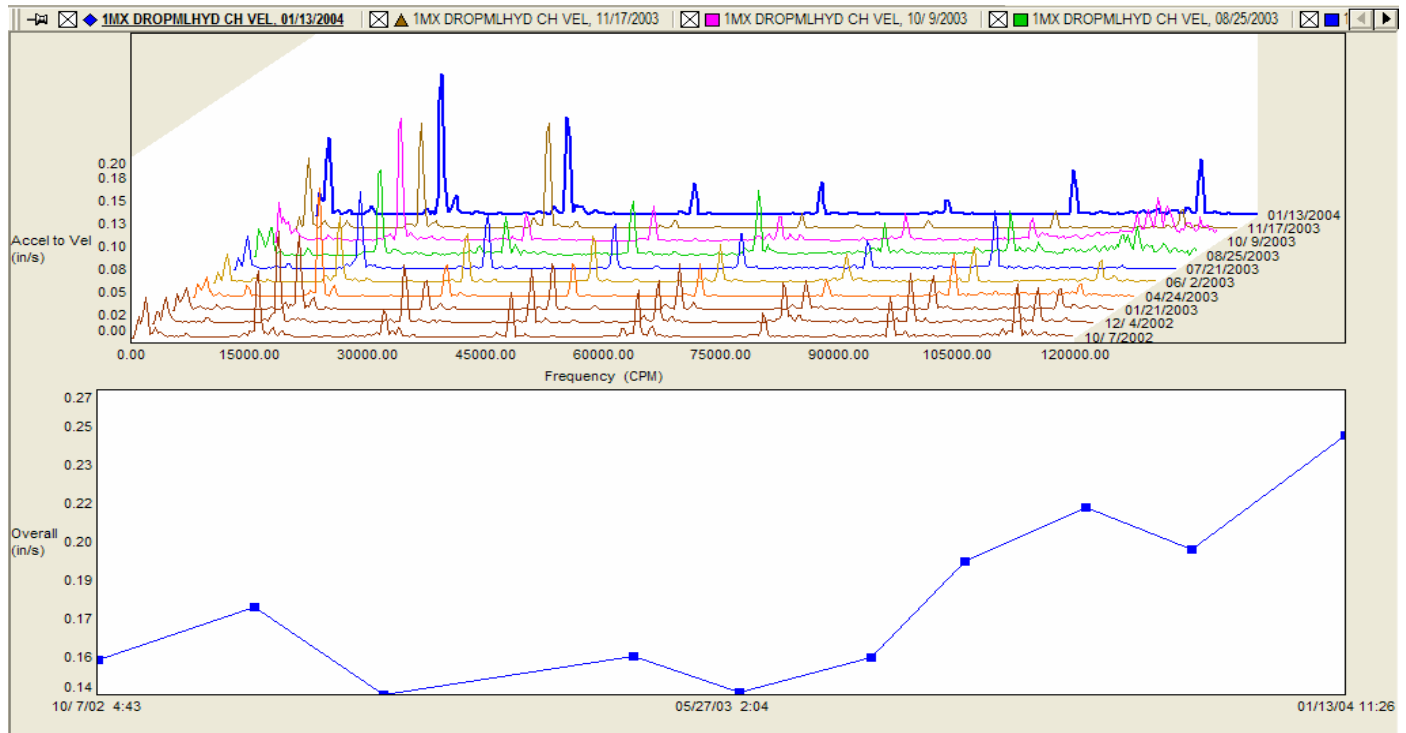


# SAMPLE REPORT

## MACHINERY VIBRATION REPORT

EQUIPMENT NAME	PROBLEM DESCRIPTION	PRIORITY
#1 Mixing Drop Mill Hydraulic Pump	A critical alarm was issued for the velocity on the hydraulic pump. Velocity levels are trending upward on new pump. Waterfall spectral show increased vibration at the pump speed (1800 RPM) and harmonics of the pump gear/piston/vane frequency. This may indicate a restriction in the flow or improper relief. Refer to attachment for pump velocity waterfall plot and trend.	Med-high
RECOMMENDED ACTION:	Check pump for possible obstructed / impeded flow. Check relief valves for proper operation and setting.	

*Problem Found / Action Taken*



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# SAMPLE REPORT

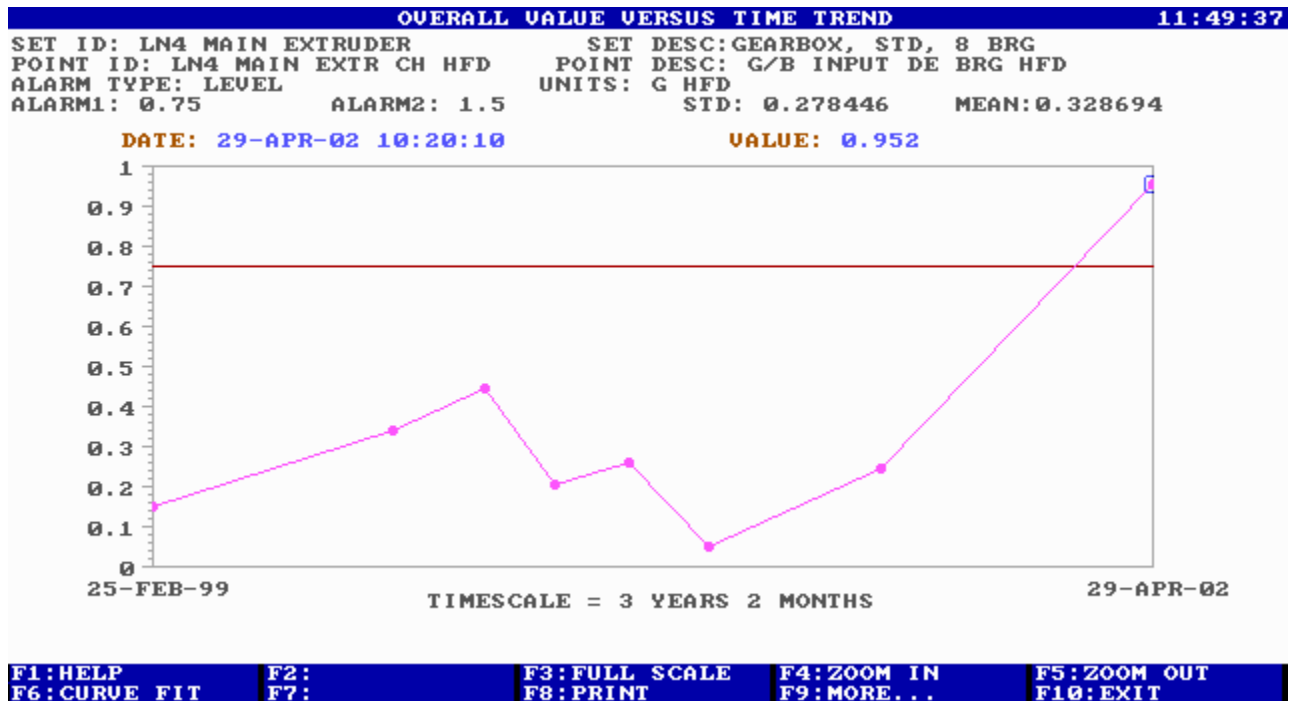
## MACHINERY VIBRATION REPORT

EQUIPMENT NAME	PROBLEM DESCRIPTION	PRIORITY
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<b>Line 4 Main Extruder</b>	Increased HFD levels noted in gearbox, possible bearing wear noted in spectral data of drive end bearing of input shaft. There are also some frequencies noted in the intermediate and output shaft that appear to be related to either the gearmesh of the final gearset or possible ball spin defect on one of the bearings of the 2 <sup>nd</sup> gearbox shaft. See attachment for HFD trend.	<b>Medium</b>
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RECOMMENDED ACTION: Schedule drive end bearing of gearbox input shaft for replacement within 45 day time frame. Inspect the 2<sup>nd</sup> shaft bearings (rollers) for wear at time of repair. MDI will advise after next inspection of any further change / improvement.

Problem Found / Action Taken



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