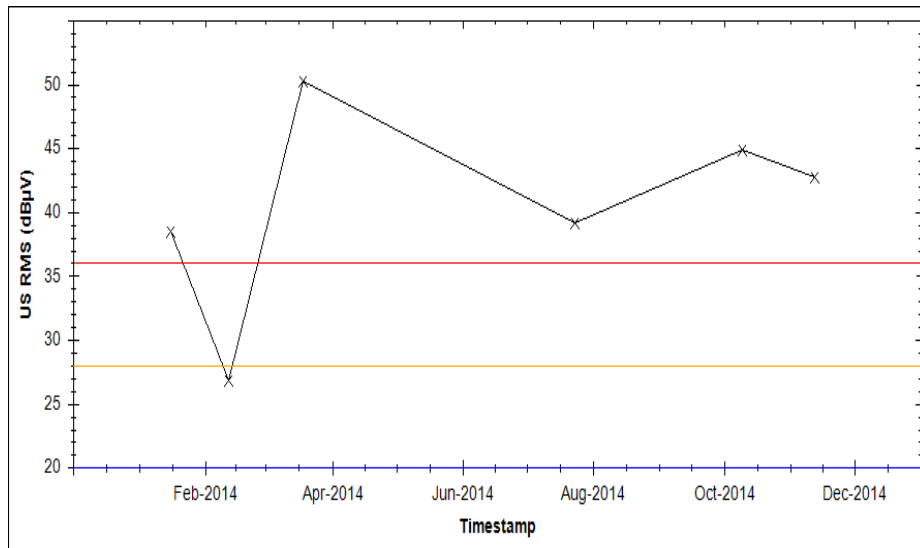


ULTRASOUND EXCEPTION REPORT

SAMPLE CUSTOMER

SAMPLE LOCATION

Data Collected: April 2015



SAMPLE CUSTOMER

SAMPLE LOCATION

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SAMPLE CUSTOMER
SUMMARY OF ULTRASOUND FINDINGS

1 - CRITICAL
2 - DEFECTS ARE IN MODERATE STAGES
3 - DEFECTS MAY BE PRESENT
4 - LEVELS ARE ABOVE NORMAL
5 - NORMAL

CLICKABLE
NAVIGATION ↙

PRIORITY	MACHINE NAME	LOCATION	DATE	PAGE #	COMMENTS	CUSTOMER ACTION ITEMS	CLIENT USE MAINTENANCE PERFORMED?
PRIORITY 2	STG HYDRAULIC PUMP A	STG	4/10/15	6	LEVELS CONTINUE TO INCREASE AND MAY BE DUE TO LACK OF LUBRICATION. VIBRATION INDICATES INTERNAL WEAR OR LOOSENESS MAY BE PRESENT.	ENSURE MOTOR INBOARD AND PUMP BEARINGS ARE LUBRICATED. MONITOR MONTHLY WITH VIBRATION.	
PRIORITY 2	STG HYDRAULIC PUMP B	STG	4/10/15	6	ULTRASOUND VALUES REMAIN ELEVATED ON THIS UNIT. VIBRATION INDICATES AN INBOARD MOTOR BEARING DEFECT IS PRESENT IN EARLY STAGES.	ENSURE PUMP AND MOTOR BEARINGS ARE LUBRICATED. MONITOR BEARING DEFECT WITH VIBRATION.	
PRIORITY 3	BOILER FEEDWATER PUMP 101-A	UNIT A	4/10/15	6	LEVELS ARE INCREASING AGAIN AND IS LIKELY DUE TO LACK OF LUBRICATION. CURRENT VIBRATION IS NORMAL.	ENSURE GEARBOX BEARINGS ARE PROPERLY LUBRICATED.	
PRIORITY 3	STG GLAND STEAM BLOWER B	STG	4/10/15	7	ULTRASOUND REMAINS ELEVATED. VIBRATION INDICATES THIS UNIT HAS A MOTOR BEARING DEFECT IN EARLY TO MODERATE STAGES.	MONITOR WITH VIBRATION.	
PRIORITY 3	1A LUBE OIL MIST SEPARATION MOTOR 1	UNIT A	4/10/15	7	ULTRASOUND REMAINS ELEVATED. VIBRATION INDICATES A MOTOR BEARING DEFECT IS PRESENT IN EARLY STAGES.	ENSURE MOTOR BEARINGS ARE LUBRICATED AND MONITOR WITH VIBRATION.	
PRIORITY 3	1B AUX HYDRAULIC PUMP 2	UNIT B	4/10/15	7	ELEVATED ULTRASOUND LEVELS MAY BE DUE TO LACK OF LUBRICATION. VIBRATION LEVELS ARE NORMAL.	ENSURE MOTOR INBOARD BEARING IS LUBRICATED.	
PRIORITY 3	1B DUCT BURNER FAN B	UNIT B	4/10/15	8	ULTRASOUND LEVELS REMAIN ELEVATED AND MAY BE DUE TO LACK OF LUBRICATION. CURRENT VIBRATION IS NORMAL.	ENSURE MOTOR OUTBOARD BEARING IS LUBRICATED.	
PRIORITY 3	1B EXHAUST FRAME BLOWER 2	UNIT B	4/10/15	8	ULTRASOUND LEVELS MAY BE ELEVATED DUE TO LACK OF LUBRICATION. CURRENT VIBRATION IS NORMAL.	ENSURE MOTOR INBOARD BEARING IS LUBRICATED.	
PRIORITY 4	1A AUX HYDRAULIC PUMP 1	UNIT A	4/10/15	8	ULTRASOUND REMAINS ELEVATED ON THE MOTOR INBOARD BEARING AND IS LIKELY DUE TO POOR LUBRICATION. CURRENT VIBRATION IS NORMAL.	ENSURE MOTOR INBOARD BEARING IS LUBRICATED.	
PRIORITY 4	1A DUCT BURNER FAN B	UNIT A	4/10/15	9	ELEVATED LEVELS ARE LIKELY DUE TO POOR LUBRICATION. LEVELS DECREASED BUT ARE STILL COMPARATIVELY ELEVATED. VIBRATION IS NORMAL.	ENSURE MOTOR OUTBOARD BEARING IS LUBRICATED.	
PRIORITY 4	1B LUBE OIL MIST SEPARATION MOTOR 2	UNIT B	4/10/15	9	LEVELS DECREASED SIGNIFICANTLY BUT ARE STILL COMPARATIVELY ELEVATED. MAY BE DUE TO LACK OF LUBRICATION. CURRENT VIBRATION IS NORMAL.	ENSURE MOTOR OUTBOARD BEARING IS LUBRICATED.	
PRIORITY 4	1B EXHAUST FRAME BLOWER 1	UNIT B	4/10/15	9	ULTRASOUND LEVELS MAY BE ELEVATED DUE TO LACK OF LUBRICATION. VIBRATION HAS ELEVATED VANE PASS BUT MOTOR APPEARS NORMAL.	ENSURE MOTOR INBOARD BEARING IS LUBRICATED.	



Ultrasound Machine History Report

Sample Customer

1- CRITICAL
2- DEFECTS ARE IN MODERATE STAGES
3 - DEFECTS MAY BE PRESENT
4 - LEVELS ARE ABOVE NORMAL
5 - NORMAL

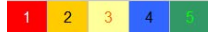
Equipment ID	Sep-14	Nov-14	Dec-14	Apr-15	CMS RECOMMENDATIONS
BOILER FEEDWATER PUMP 101-A	4		4	3	ENSURE GEARBOX BEARINGS ARE PROPERLY LUBRICATED.
BOILER FEEDWATER PUMP 101-B	3			5	
BOILER FEEDWATER PUMP 201-A	4			5	
BOILER FEEDWATER PUMP 201-B			4	5	
STG CONDENSATE PUMP A			4	5	
STG CONDENSATE PUMP B	5			5	
STG GLAND STEAM BLOWER A	2		3	5	
STG GLAND STEAM BLOWER B	5		2	3	MONITOR WITH VIBRATION.
STG LUBE OIL PUMP 1	5			5	
STG LUBE OIL PUMP 2	5			5	
STG HYDRAULIC PUMP A	3		3	2	ENSURE MOTOR INBOARD AND PUMP BEARINGS ARE LUBRICATED. MONITOR MONTHLY WITH VIBRATION.
STG HYDRAULIC PUMP B	3		3	2	ENSURE PUMP AND MOTOR BEARINGS ARE LUBRICATED. MONITOR BEARING DEFECT WITH VIBRATION.
STG OILY WATER SEPARATOR P-A	4			5	
STG OILY WATER SEPARATOR P-B	5			5	
1A LUBE OIL MIST SEPARATION MOTOR 1	4		3	3	ENSURE MOTOR BEARINGS ARE LUBRICATED AND MONITOR WITH VIBRATION.
1A LUBE OIL MIST SEPARATION MOTOR 2	3		3	5	
1A BLOWDOWN PUMP A	5			5	
1A BLOWDOWN PUMP B	5			5	
1A AUX LUBE OIL PUMP 1	4			5	
1A AUX LUBE OIL PUMP 2	4		4	5	
1A AUX HYDRAULIC PUMP 1	3		4	4	ENSURE MOTOR INBOARD BEARING IS LUBRICATED.
1A AUX HYDRAULIC PUMP 2	5		3	5	
1A DUCT BURNER FAN A	4				ENSURE MOTOR OUTBOARD BEARING IS LUBRICATED.
1A DUCT BURNER FAN B	4		3	4	ENSURE MOTOR OUTBOARD BEARING IS LUBRICATED.
1A AMMONIA FAN MOTOR A	4			5	
1A AMMONIA FAN MOTOR B	4		4	5	
1A EXHAUST FRAME BLOWER 1	5		4	5	
1A EXHAUST FRAME BLOWER 2	4			5	
1A #2 BEARING COOLING FAN 1	5		3	5	
1A #2 BEARING COOLING FAN 2	4			5	
1A TURBINE COMPARTMENT COOLING FAN 1				5	
1A TURBINE COMPARTMENT COOLING FAN 2				5	
1B LUBE OIL MIST SEPARATION MOTOR 1	2		3	5	
1B LUBE OIL MIST SEPARATION MOTOR 2	3		3	4	ENSURE MOTOR OUTBOARD BEARING IS LUBRICATED.
1B BLOWDOWN PUMP A	5			5	

Equipment ID	Sep-14	Nov-14	Dec-14	Apr-15	CMS RECOMMENDATIONS
1B BLOWDOWN PUMP B				4	
1B AMMONIA FAN MOTOR A	4			4	
1B AMMONIA FAN MOTOR B	4			4	
1B AUX HYDRAULIC PUMP 1	4		2	4	
1B AUX HYDRAULIC PUMP 2	4		3	3	ENSURE MOTOR INBOARD BEARING IS LUBRICATED.
1B DUCT BURNER FAN A	4			4	
1B DUCT BURNER FAN B	3		3	3	ENSURE MOTOR OUTBOARD BEARING IS LUBRICATED.
1B EXHAUST FRAME BLOWER 1	4		4	4	ENSURE MOTOR INBOARD BEARING IS LUBRICATED.
1B EXHAUST FRAME BLOWER 2	4		4	3	ENSURE MOTOR INBOARD BEARING IS LUBRICATED.
1B #2 BEARING COOLING FAN 1	3		4	4	
1B #2 BEARING COOLING FAN 2	3		3	4	
1B TURBINE COMPARTMENT COOLING FAN 1	4			4	
1B TURBINE COMPARTMENT COOLING FAN 2	4			4	
VAPOR COMPRESSOR MOTOR				4	
CCW PUMP A	4			4	
CCW PUMP B	3			4	
CCW PUMP C	4			4	
OILY WATER SEPARATOR PUMP A	2		3	4	
OILY WATER SEPARATOR PUMP B	4			4	
ACC 1A	4		4	4	
ACC 1B	4			4	
ACC 1C	4		4	4	
ACC 1D	4			4	
ACC 2A	4		4	4	
ACC 2B			4	4	
ACC 2C			4	4	
ACC 2D	4			4	
ACC 3A	4			4	
ACC 3B	4			4	
ACC 3C	4		4	4	
ACC 3D	4		4	4	
ACC 4A	4		4	4	
ACC 4B	4			4	
ACC 4C	4		4	4	
ACC 4D	4		4	4	
DEMIN TRANSFER PUMP A	4			4	
DEMIN TRANSFER PUMP B	4			4	
WASTE WATER TRANSFER PUMP A	4			4	
WASTE WATER TRANSFER PUMP B	2			4	
POTABLE WATER PUMP A	4		3	4	
POTABLE WATER PUMP B	4		4	4	
RAW WATER STORAGE PUMP A	4			4	
RAW WATER STORAGE PUMP B				4	



ULTRASOUND EXCEPTION ANALYSIS REPORT

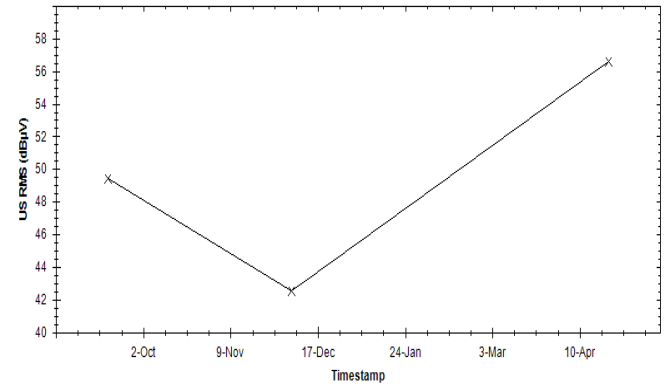
BACK TO MATRIX



Machine name:	STG HYDRAULIC PUMP A	Location:	STG
Data collected:	April 10, 2015	STATUS:	DEFECTIVE reliability is poor

OBSERVATIONS: LEVELS CONTINUE TO INCREASE AND MAY BE DUE TO LACK OF LUBRICATION. VIBRATION INDICATES INTERNAL WEAR OR LOOSENESS MAY BE PRESENT. THE TREND TO THE RIGHT IS OF THE PUMP OUTBOARD.

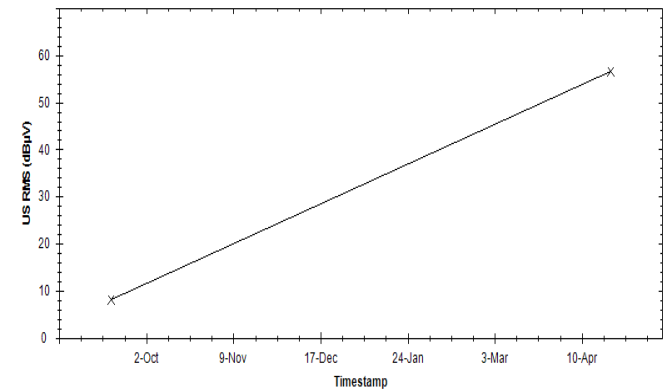
RECOMMENDATIONS: ENSURE MOTOR INBOARD AND PUMP BEARINGS ARE LUBRICATED. MONITOR MONTHLY WITH VIBRATION.



Machine name:	STG HYDRAULIC PUMP B	Location:	STG
Data collected:	April 10, 2015	STATUS:	DEFECTIVE reliability is poor

OBSERVATIONS: ULTRASOUND VALUES REMAIN ELEVATED ON THIS UNIT. VIBRATION INDICATES AN INBOARD MOTOR BEARING DEFECT IS PRESENT IN EARLY STAGES. THE TREND TO THE RIGHT IS OF THE PUMP OUTBOARD.

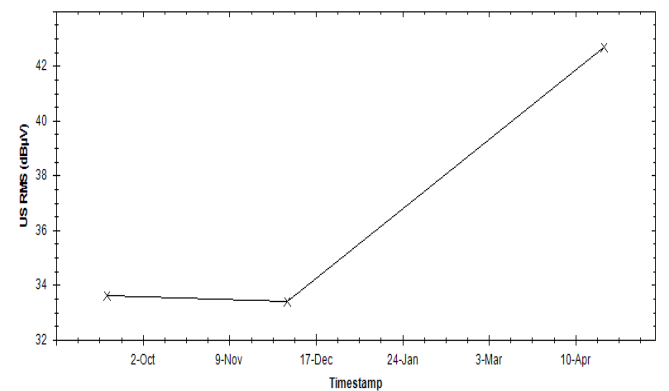
RECOMMENDATIONS: ENSURE PUMP AND MOTOR BEARINGS ARE LUBRICATED. MONITOR BEARING DEFECT WITH VIBRATION.



Machine name:	BOILER FEEDWATER PUMP 101-A	Location:	UNIT A
Data collected:	April 10, 2015	STATUS:	ALERT defects may be present

OBSERVATIONS: LEVELS ARE INCREASING AGAIN AND IS LIKELY DUE TO LACK OF LUBRICATION. THE TREND TO THE RIGHT IS OF THE GEARBOX OUTBOARD. CURRENT VIBRATION IS NORMAL.

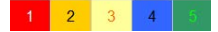
RECOMMENDATIONS: ENSURE GEARBOX BEARINGS ARE PROPERLY LUBRICATED.





ULTRASOUND EXCEPTION ANALYSIS REPORT

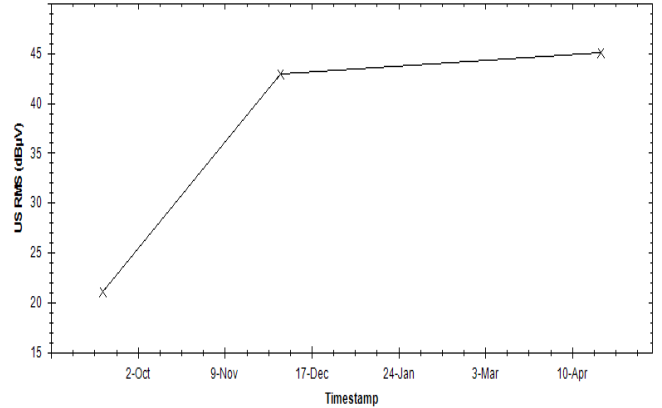
BACK TO MATRIX



Machine name:	STG GLAND STEAM BLOWER B	Location:	STG
Data collected:	April 10, 2015	STATUS:	ALERT defects may be present

OBSERVATIONS:

ULTRASOUND REMAINS ELEVATED. VIBRATION INDICATES THIS UNIT HAS A MOTOR BEARING DEFECT IN EARLY TO MODERATE STAGES. THE TREND TO THE RIGHT IS OF THE MOTOR OUTBOARD.



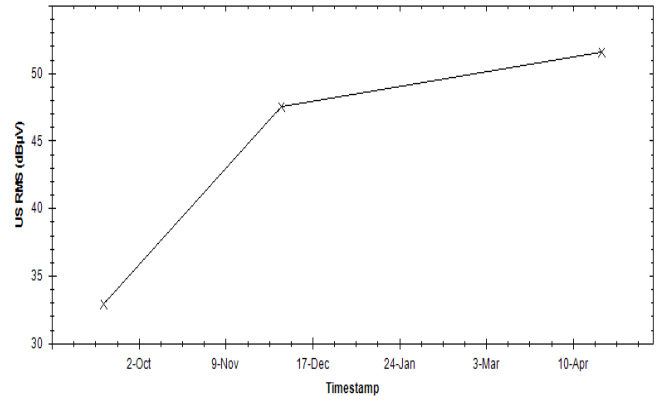
RECOMMENDATIONS:

MONITOR WITH VIBRATION.

Machine name:	1A LUBE OIL MIST SEPARATION MOTOR 1	Location:	UNIT A
Data collected:	April 10, 2015	STATUS:	ALERT defects may be present

OBSERVATIONS:

ULTRASOUND REMAINS ELEVATED. VIBRATION INDICATES A MOTOR BEARING DEFECT IS PRESENT IN EARLY STAGES.



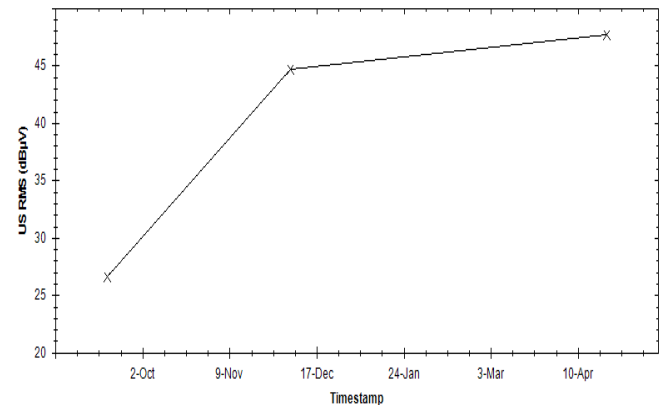
RECOMMENDATIONS:

ENSURE MOTOR BEARINGS ARE LUBRICATED AND MONITOR WITH VIBRATION.

Machine name:	1B AUX HYDRAULIC PUMP 2	Location:	UNIT B
Data collected:	April 10, 2015	STATUS:	ALERT defects may be present

OBSERVATIONS:

ELEVATED ULTRASOUND LEVELS MAY BE DUE TO LACK OF LUBRICATION. THE TREND TO THE RIGHT IS OF THE MOTOR INBOARD. VIBRATION LEVELS ARE NORMAL.



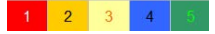
RECOMMENDATIONS:

ENSURE MOTOR INBOARD BEARING IS LUBRICATED.



ULTRASOUND EXCEPTION ANALYSIS REPORT

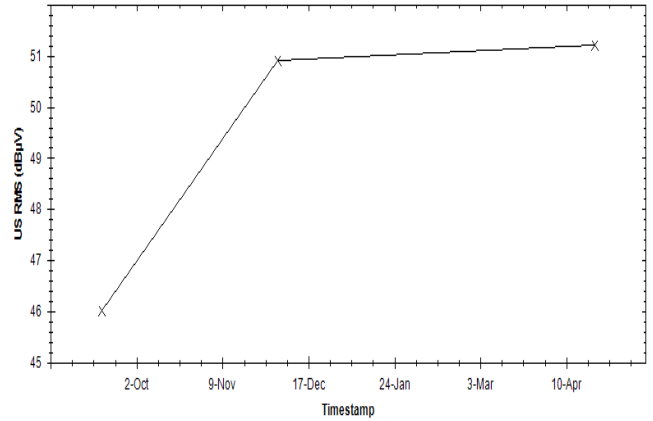
BACK TO MATRIX



Machine name:	1B DUCT BURNER FAN B	Location:	UNIT B
Data collected:	April 10, 2015	STATUS:	ALERT defects may be present

OBSERVATIONS: ULTRASOUND LEVELS REMAIN ELEVATED AND MAY BE DUE TO LACK OF LUBRICATION. CURRENT VIBRATION IS NORMAL. THE TREND TO THE RIGHT IS OF THE MOTOR OUTBOARD.

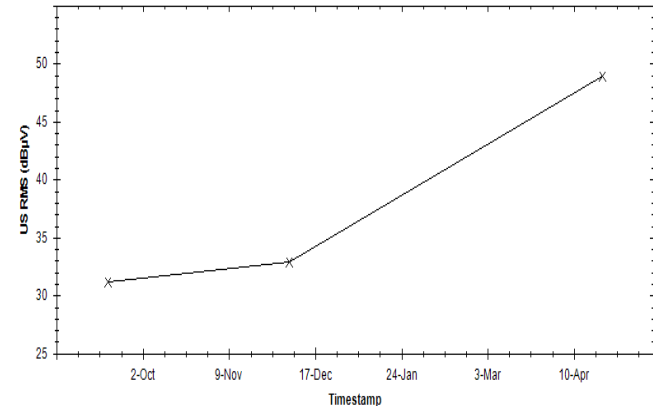
RECOMMENDATIONS: ENSURE MOTOR OUTBOARD BEARING IS LUBRICATED.



Machine name:	1B EXHAUST FRAME BLOWER 2	Location:	UNIT B
Data collected:	April 10, 2015	STATUS:	ALERT defects may be present

OBSERVATIONS: ULTRASOUND LEVELS MAY BE ELEVATED DUE TO LACK OF LUBRICATION. CURRENT VIBRATION IS NORMAL. THE TREND TO THE RIGHT IS OF THE MOTOR INBOARD.

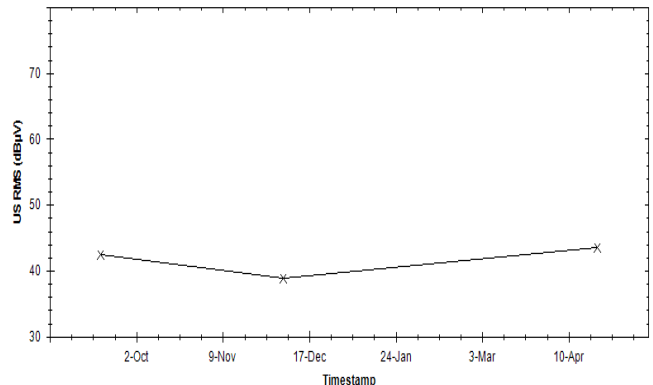
RECOMMENDATIONS: ENSURE MOTOR INBOARD BEARING IS LUBRICATED.



Machine name:	1A AUX HYDRAULIC PUMP 1	Location:	UNIT A
Data collected:	April 10, 2015	STATUS:	NOTATION comments only

OBSERVATIONS: ULTRASOUND REMAINS ELEVATED ON THE MOTOR INBOARD BEARING AND IS LIKELY DUE TO POOR LUBRICATION. CURRENT VIBRATION IS NORMAL. THE TREND TO THE RIGHT IS OF THE MOTOR INBOARD.

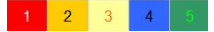
RECOMMENDATIONS: ENSURE MOTOR INBOARD BEARING IS LUBRICATED.





ULTRASOUND EXCEPTION ANALYSIS REPORT

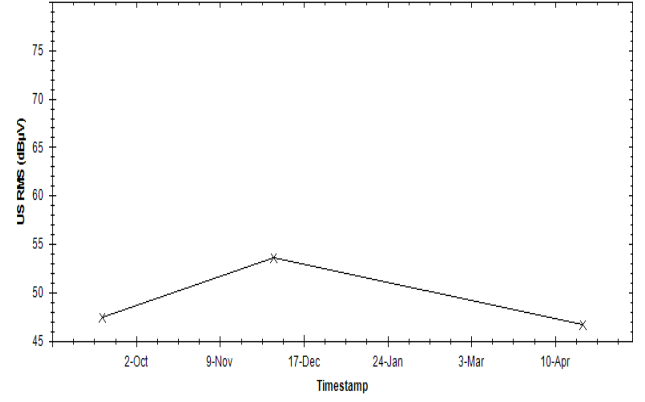
BACK TO MATRIX



Machine name:	1A DUCT BURNER FAN B	Location:	UNIT A
Data collected:	April 10, 2015	STATUS:	NOTATION comments only

OBSERVATIONS: ELEVATED LEVELS ARE LIKELY DUE TO POOR LUBRICATION. LEVELS DECREASED SIGNIFICANTLY BUT ARE STILL COMPARATIVELY ELEVATED. THE TREND TO THE RIGHT IS OF THE MOTOR OUTBOARD. CURRENT VIBRATION IS NORMAL.

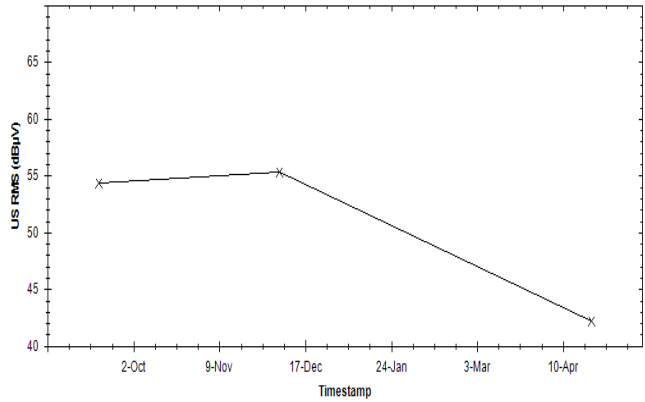
RECOMMENDATIONS: ENSURE MOTOR OUTBOARD BEARING IS LUBRICATED.



Machine name:	1B LUBE OIL MIST SEPARATION MOTOR 2	Location:	UNIT B
Data collected:	April 10, 2015	STATUS:	NOTATION comments only

OBSERVATIONS: LEVELS DECREASED SIGNIFICANTLY BUT ARE STILL COMPARATIVELY ELEVATED. MAY BE DUE TO LACK OF LUBRICATION. THE TREND TO THE RIGHT IS OF THE MOTOR OUTBOARD. CURRENT VIBRATION IS NORMAL.

RECOMMENDATIONS: ENSURE MOTOR OUTBOARD BEARING IS LUBRICATED.



Machine name:	1B EXHAUST FRAME BLOWER 1	Location:	UNIT B
Data collected:	April 10, 2015	STATUS:	NOTATION comments only

OBSERVATIONS: ULTRASOUND LEVELS MAY BE ELEVATED DUE TO LACK OF LUBRICATION. THE TREND TO THE RIGHT IS OF THE MOTOR INBOARD. VIBRATION HAS ELEVATED VANE PASS BUT MOTOR APPEARS NORMAL.

RECOMMENDATIONS: ENSURE MOTOR INBOARD BEARING IS LUBRICATED.

