PdM Solutions of San Antonio, Inc
Vibration Analysis Summary

Plant Name	Sanderson Farm Easterly Feed Mill plant
Location	Franklin, TX
Date	July 9, 2024

ID#	Equipment		Note
HM#1	H/M Champion HM44-48		
	Motor Toshiba 400HP/4P		
HM#2	H/M Champion HM44-48		High mill/motor vibration continued and remains mostly unchanged. Tighten all bolts/nuts/anchoring and check coupling for damages.
	Motor Baldor 400HP/4P		
HM#3	H/M Champion HM44-48		
	Motor Toshiba 400HP/4P		.
#1 Pellet Mill	CPM 7700-9000		
	Toshiba 600HP/4P		
#2 Pellet Mill	CPM 7700-9000		
	Motor Toshiba 600HP/4P		
#1 Cooler Fan	Industrial Air Tech 445		
	Motor Baldor 200HP/4P		
#2 Cooler Fan	Industrial Air Tech 445		
	Motor Baldor 200HP/4P		
#1 Rail receiving gear box	Dodge Gear Box		
	Reliance 75HP/4p		
#1 Truck receiving gear box	Dodge Gear Box		
	Reliance 75HP/4p		
#2 Rail receiving gear box	Euro Gear Box		
	Reliance 75HP/4p		
#3 Rail receiving gear box	Euro Gear Box		
	Reliance 75HP/4p		High motor/bearing vibration observed. Data shows signs of bearing wear.

Warning Flag Notation

Flag Type	Reliability Assessments
Normal	Reliable
Showed sign of problem(s)	Reliable, but concern(s) existed.
Progresses problem(s)	Not reliable for continuous operation.
Critical	Unsafe to operate

Next Inspection: In 6 months. January 2025

PdM Solutions of San Antonio, Inc
Vibration analysis, Thermal imaging, oil analysis ,laser alignment
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Vibration Analysis Cover Sheet

1. Machinery Information.

Plant	Sanderson Farms	Location.	Franklin, TX
Contract No.	Franklin/Easterly FM	Date	July 9, 2024
Unit ID#	#2 Hammer Mill		
Model	Champion HM 44-48		
Drive	Direct Drive	Pump Speed	1785 RPM
Motor BHP-RPM	400 HP-4P	Motor Manufacturer	Baldor
Motor Bearing-Drive	110BC02J30X (6222C3)	Motor Bearing-Open	90BC03J30X (6318C3)
Data Taken by	Scott Brown/PdM Solutions	Data Analyses by	Scott Brown/PdM Solutions
Service History			

2. Result

		Comment
Hammer Mill		Mill and motor vibration continued and remained mostly unchanged. Data shows looseness, balancing and/or coupling damages.
Motor		
Alignment		

Warning Flag Notation

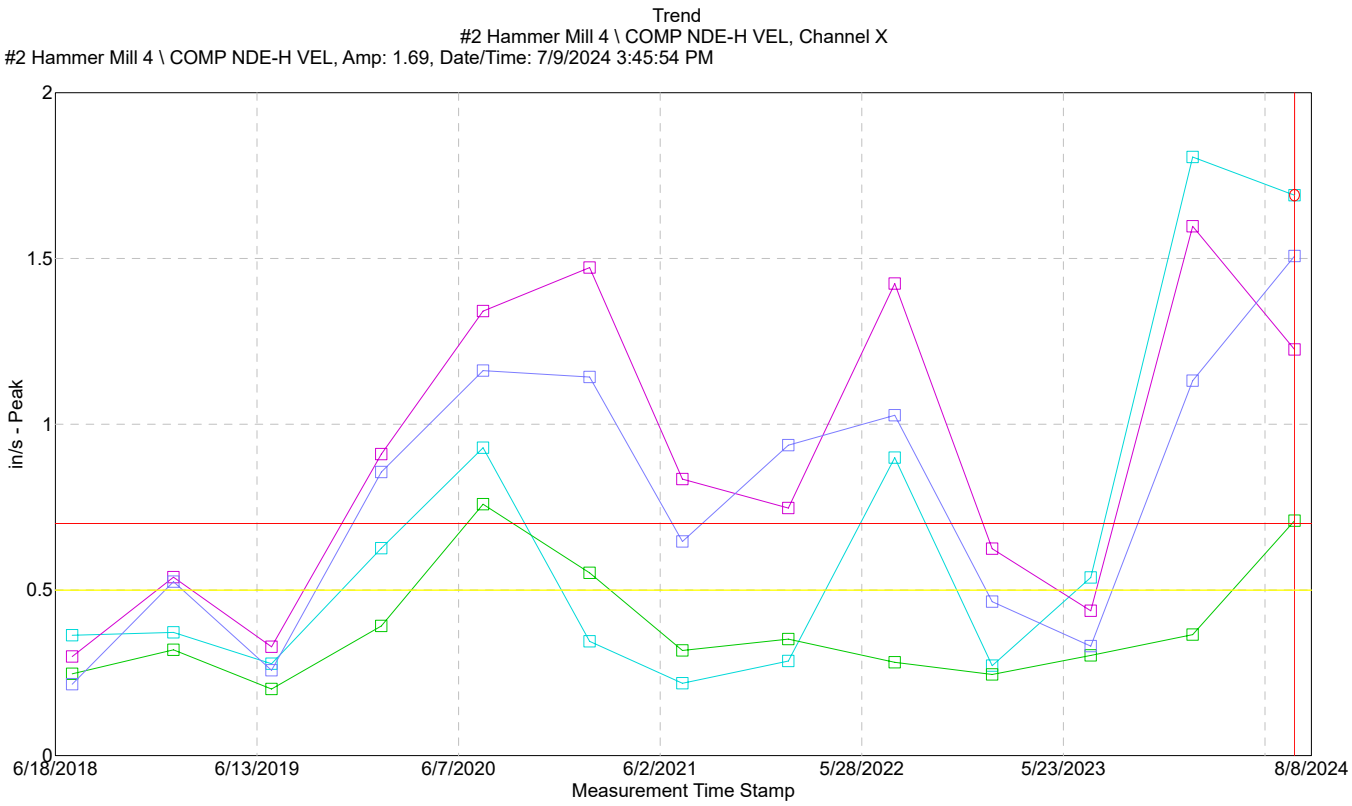
Flag Type	Reliability Assessments
Normal	Reliable
Showed a sign of problem(s)	Reliable, but concern(s) existed.
Progresses problem(s)	Not reliable for continuous operation.
Critical	Unsafe to operate

Inspection Note

3. Recommendation
   - Tighten all bolts/nuts and anchoring.
   - Check coupling for damages such as twisted or shredded center piece.
   - Check balancing of mill cages and blades.

4. Attachment
   - Vibration last measurement report
   - Vibration trend data…Mill/motor vibration

5. Next Inspection. In (6) months, **January 2025**


Trend
#2 Hammer Mill 4 \ COMP NDE-H VEL, Channel X
#2 Hammer Mill 4 \ COMP NDE-H VEL, Amp: 1.69, Date/Time: 7/9/2024 3:45:54 PM
2
1.5
1
0.5
0
in/s - Peak
6/18/2018
6/13/2019
6/7/2020
6/2/2021
5/28/2022
5/23/2023
8/8/2024
Measurement Time Stamp

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Vibration Analysis Cover Sheet

1. Machinery Information.

Plant	Sanderson Farms	Location.	Franklin TX
Contract No.	Easterly Feed Mill Plant	Date	July 9, 2024
Unit ID#	#3 Rail Receiving Leg Gear Box		
Model	Euro gear Box		
Drive	Reduction Gear	Input/output	1785/appx 60 rpm
Motor BHP-RPM	75 HP4P 447T/TEFC	Motor Manufacturer	Reliance
Motor Bearing-Drive	6314C3	Motor Bearing-Open	6312C3
Data Taken by	Scott Brown/PdM Solutions	Data Analyses by	Scott Brown/PdM Solutions
Service History			

2. Result

		Comment
Gear Box		
Motor		High motor/drive-end bearing vibration observed. Data shows signs of bearing wear as well as looseness/balancing.
Pillow Block Bearings		

Warning Flag Notation

Flag Type		Reliability Assessments
	Normal	Reliable
	Showed a sign of problem(s)	Reliable, but concern(s) existed.
	Progresses problem(s)	Not reliable for continuous operation.
	Critical	Unsafe to operate

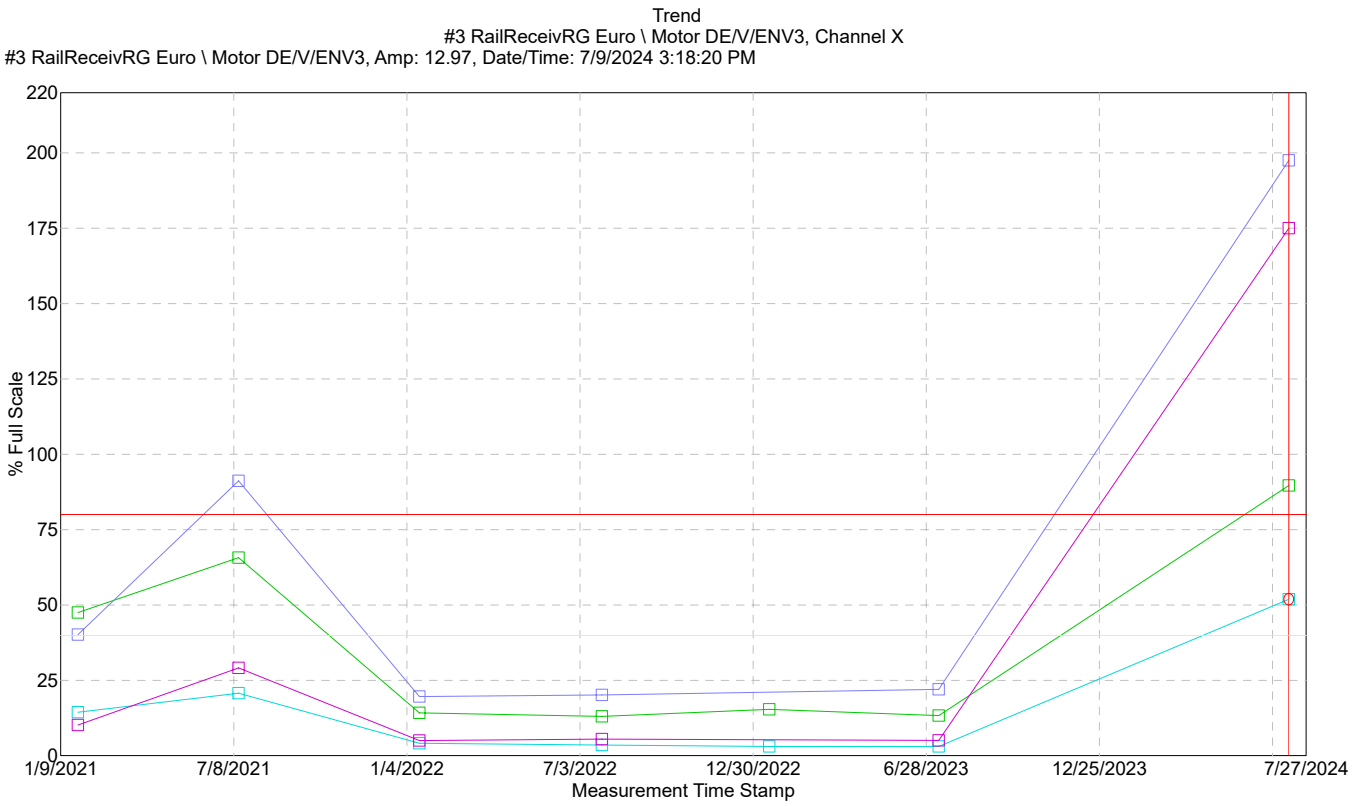
Inspection Note

- High motor vibration observed. Data shows signs of mechanical looseness/unbalancing problems.
- Very high motor bearing vibration observed on drive-end side of motor. Data shows signs of bearing wear.

3. Recommendation
- Tighten all bolts/nuts on the motor and all supports/anchoring.
- Check motor coupling for any signs of damage.
- Grease up bearings.
- Prepare for motor bearing change out.

4. Attachment
- Vibration last measurement report.
- Vibration trend data…motor drive end bearings/motor vibration

5. Next Inspection. In (6) months, **January 2025**


Trend
#3 RailReceivRG Euro \ Motor DE/V/ENV3, Channel X
#3 RailReceivRG Euro \ Motor DE/V/ENV3, Amp: 12.97, Date/Time: 7/9/2024 3:18:20 PM
% Full Scale
220
200
175
150
125
100
75
50
25
0
1/9/2021
7/8/2021
1/4/2022
7/3/2022
12/30/2022
6/28/2023
12/25/2023
7/27/2024
Measurement Time Stamp