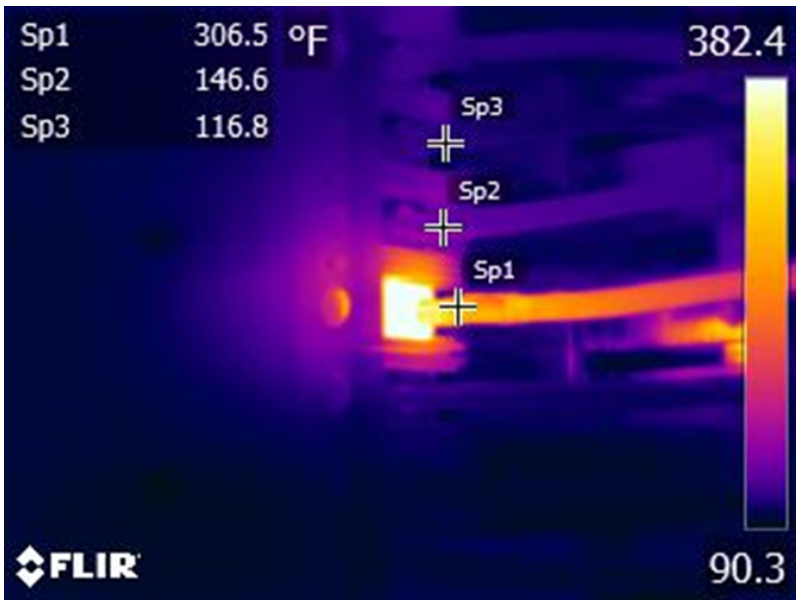


USG
Greenville, MS
March 2024 Infrared Survey Report

Scheduled electrical panels were scanned using a FLIR **T865** infrared camera. The following report only contains defects that were found during the survey. Below is our classification system for each defect included in this report.If there are any questions or comments, please feel free to contact us at any time.

HI-SPEED INDUSTRIAL SERVICE employs a three-tier defect rating system:

CLASS I: A defect or defects are present that are likely to cause a problem in the long term (2-6 months). Should be addressed in the normal course of maintenance scheduling.

CLASS II: A defect or defects are present that are likely to cause a failure in the short term (less than 2 months). Should be addressed as soon as practical, on a high maintenance priority. Consideration should be given to increase monitoring frequency.

CLASS III: A defect or defects are present that make continued component reliability unpredictable and likelihood of secondary damage is high. Consideration should be given to an unscheduled shutdown to correct.

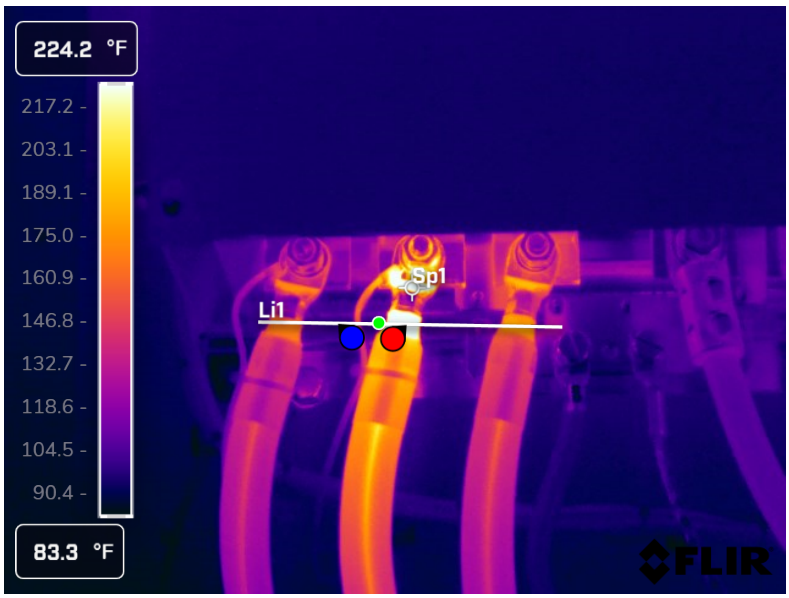
HI-SPEED INDUSTRIAL SERVICE *tests and inspects industrial machinery and equipment and makes recommendations concerning maintenance and repairs based on its experience in the field of industrial repair and maintenance. The information contained herein is provided as an opinion only, not as a guaranty or warranty of the matters discussed herein.*

Component

Lead connection

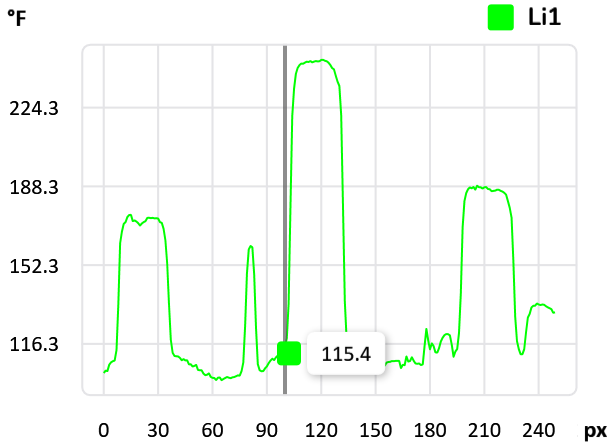
Equipment/Bucket ID

Vacuum Pump #1 VFD



Measurements

Li1	
Max	246.2 °F
Avg	142.7 °F
Min	99.7 °F
Sp1	247.8 °F



Fault

Connection issue

Defect Rating

CLASS II

Recommendations

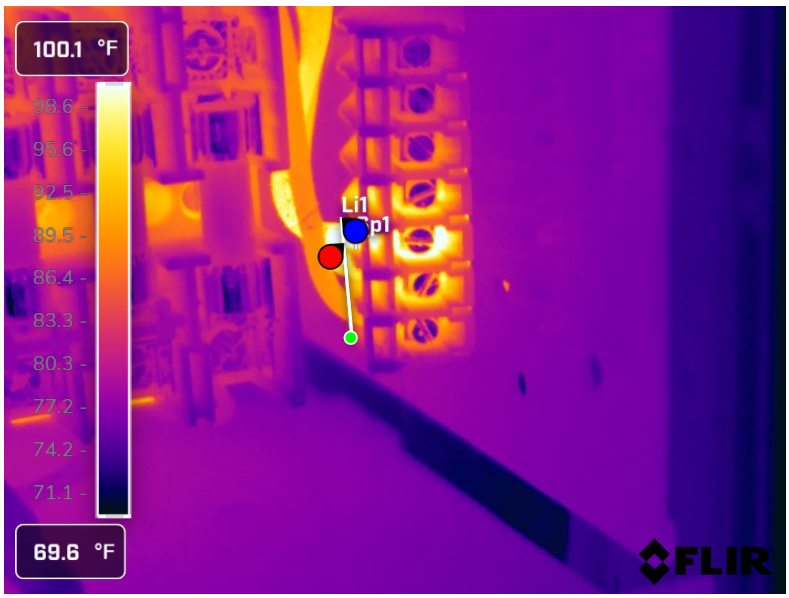
IR image shows sigificant dela-T on the B phase connection. Check lug and lead connection soon. Ensure all connections are clean and tight.

Component

lead connection

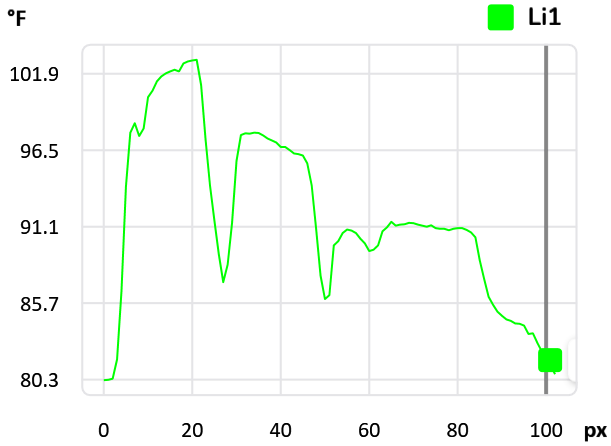
Equipment/Bucket ID

Wet End Coating Agitator M1369 MCC-7C1



Measurements

Li1	
Max	102.9 °F
Avg	91.9 °F
Min	80.3 °F
Sp1	103.6 °F



Fault

connection issue

Defect Rating

CLASS I

Recommendations

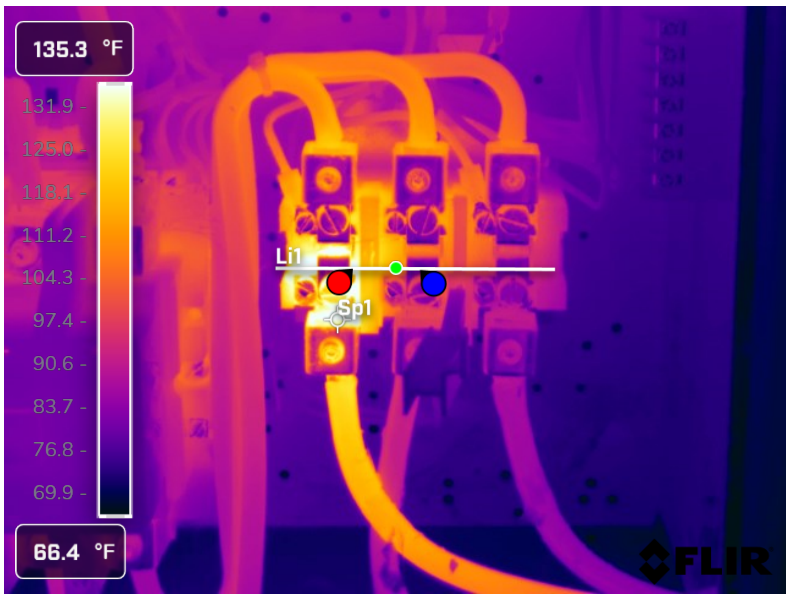
Slight issue with lead connection. Ensure connections are clean and tight.

Component

lead connection

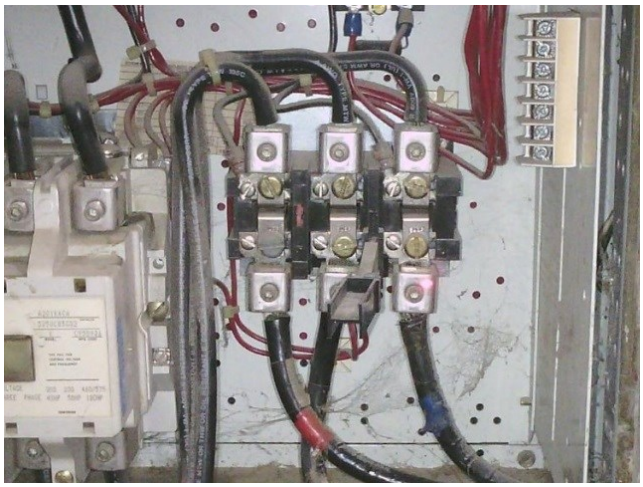
Equipment/Bucket ID

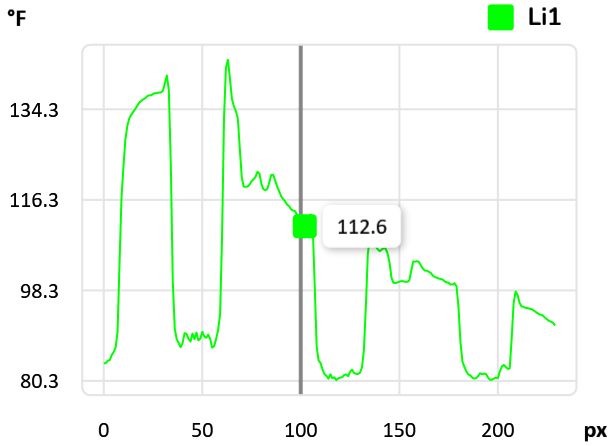
#3 Machine White Water Pump M1377 MCC-7C1



Measurements

Li1	
Max	144.2 °F
Avg	102.4 °F
Min	80.5 °F
Sp1	134.5 °F





Fault

connection issue

Defect Rating

CLASS II

Recommendations

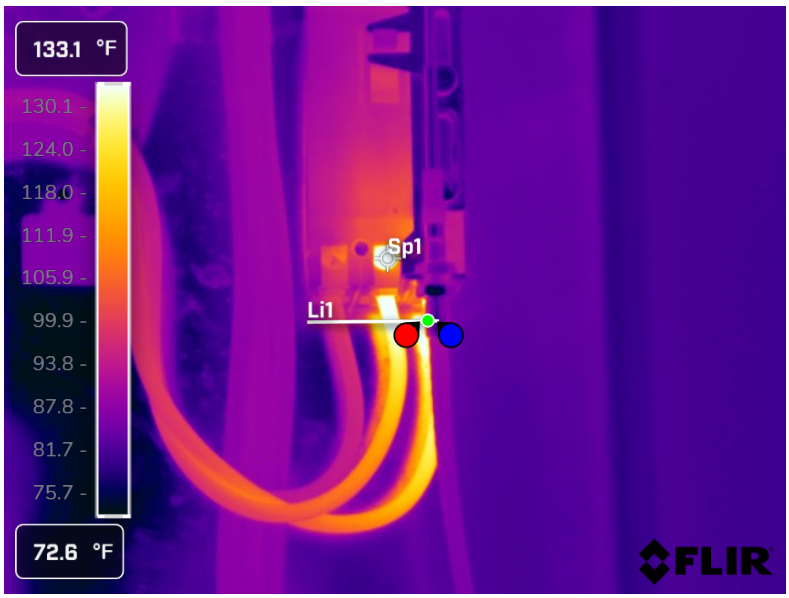
IR image shows issue with A phase lead connection. Ensure connections are clean and tight.

Component

Breaker connections

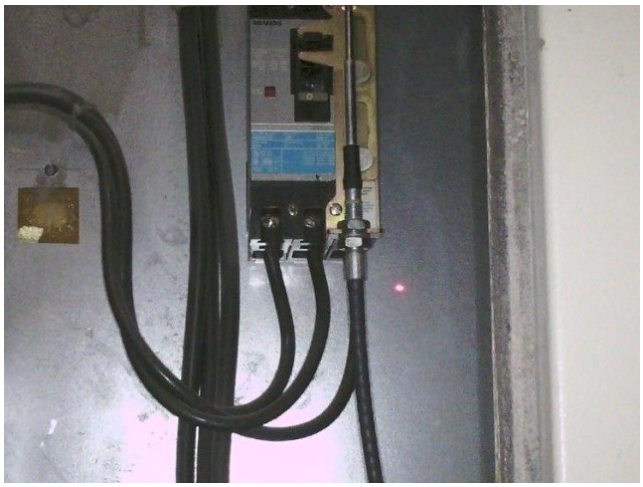
Equipment/Bucket ID

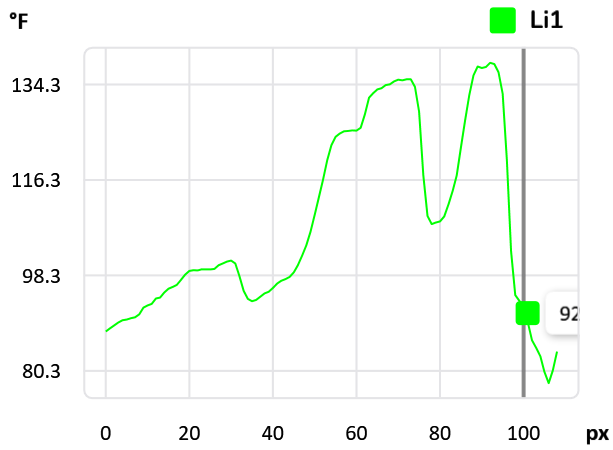
Machine Chest Pump 3A VFD-MCP1



Measurements

Li1	
Max	138.4 °F
Avg	108.1 °F
Min	78.0 °F
Sp1	142.8 °F





Fault

Connection/lug issues

Defect Rating

CLASS I

Recommendations

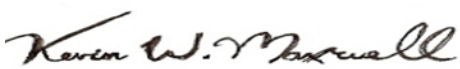
This appears to be a reoccuring issue with these breaker lead connections. If connections are found tight then the issue is likely internally in the breaker itself.

Summary

File name	Created	Maximum temp.	Page number
FLIR0715.jpg	3/29/2024 9:48:20 AM	265.4 °F	3
FLIR0717.jpg	3/29/2024 9:59:49 AM	107.8 °F	4
FLIR0719.jpg	3/29/2024 10:02:17 AM	144.4 °F	5
FLIR0721.jpg	3/29/2024 10:03:55 AM	153.1 °F	6

This concludes our survey report. Please feel free to contact us at any time for question or comments.

Thank you for your business,



ITC Certified Level II Infrared Thermographer

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