

Infrared Thermography Report

USG

August 2022

All 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.



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.

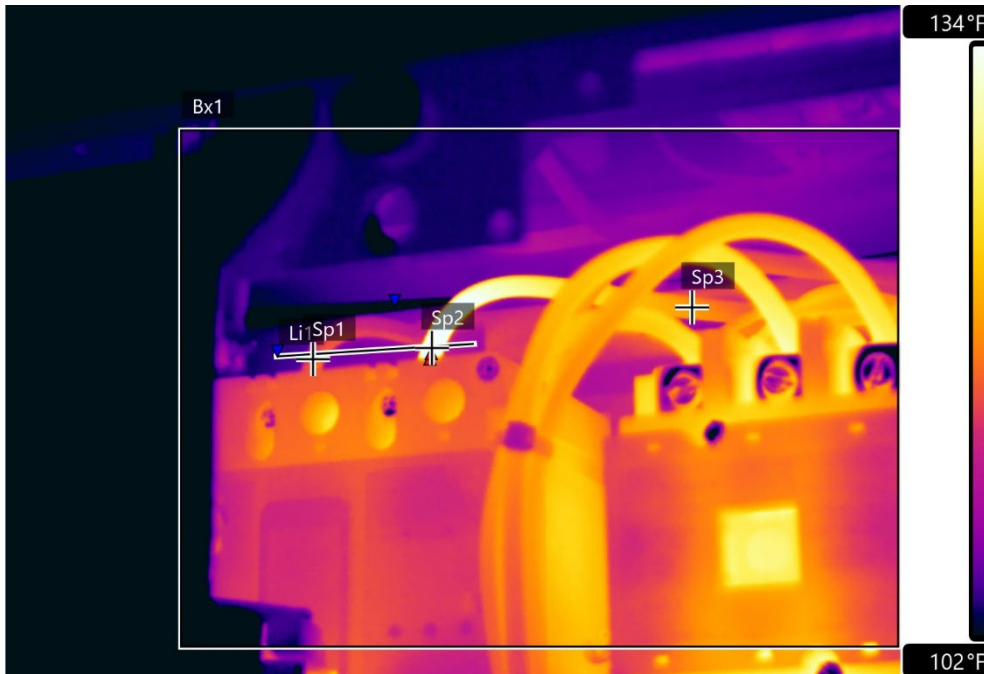
CLASS II: A defect or defects are present that are likely to cause a failure in the short term (less than 2 months). Should be addressed as soon as practical, on a high maintenance priority. Consideration should be given to increase monitoring frequency.

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.

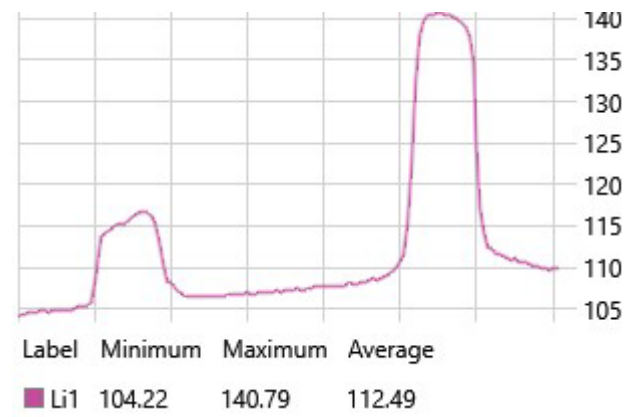


tests and inspects industrial machinery and equipment and makes recommendations concerning maintenance and repairs based on its experience in the field of industrial repair and maintenance. The information contained herein is provided as an opinion only, not as a guaranty or warranty of the matters discussed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

Component	Lead/connection
Equipment/Bucket ID	MCC-10C1 M2202 Expander 8 Combustion Blower



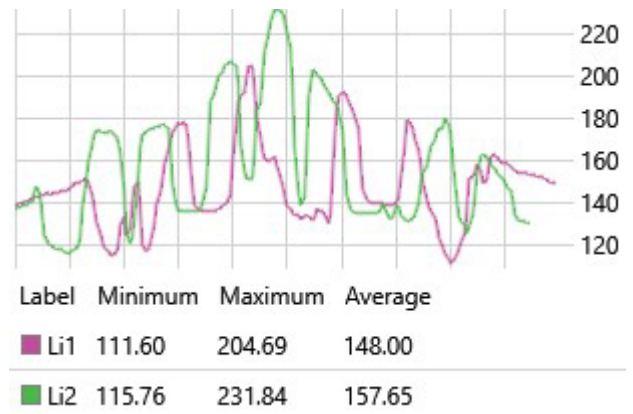
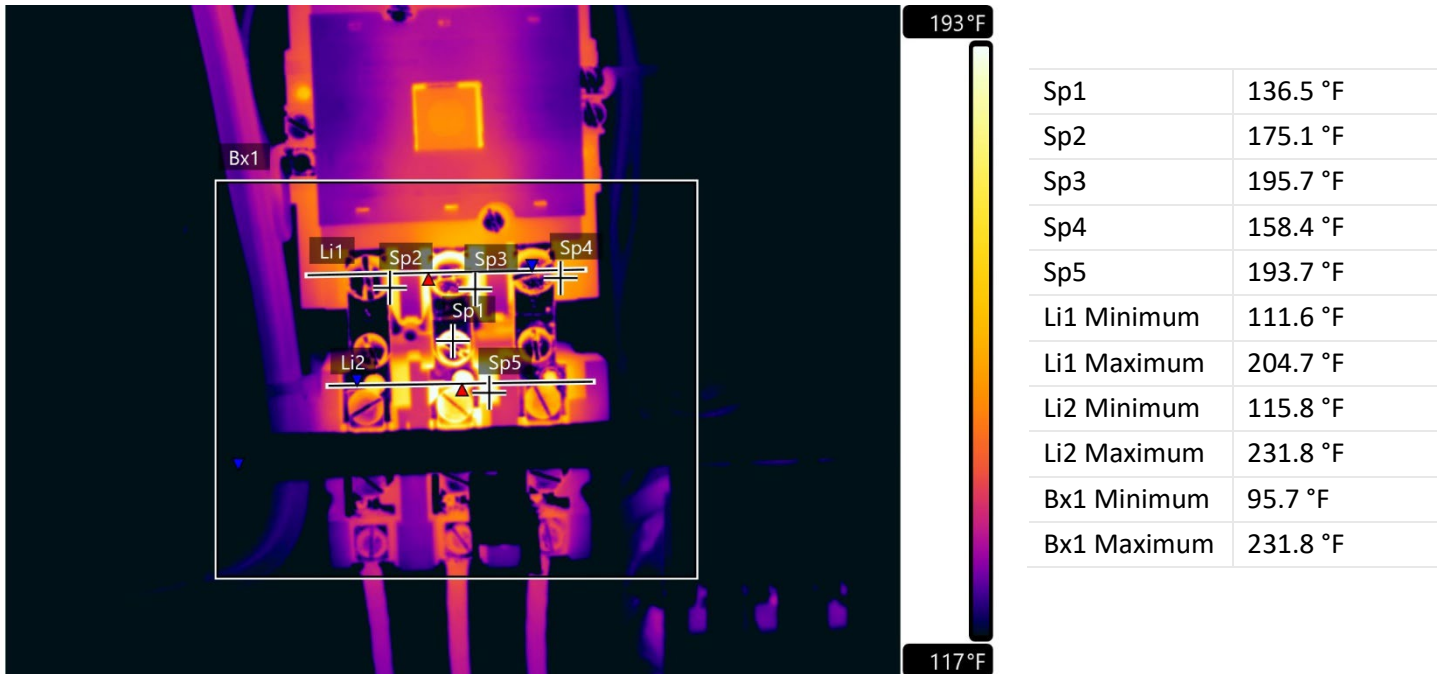
Sp1	115.8 °F
Sp2	141.0 °F
Sp3	119.4 °F
Li1 Minimum	104.2 °F
Li1 Maximum	140.8 °F
Bx1 Minimum	92.0 °F
Bx1 Maximum	141.3 °F



Fault	Faulty connection
Defect Rating	CLASS I

Recommendations	IR image shows an issue with the B phase connection on the line side of the breaker. Inspect as scheduling allows.
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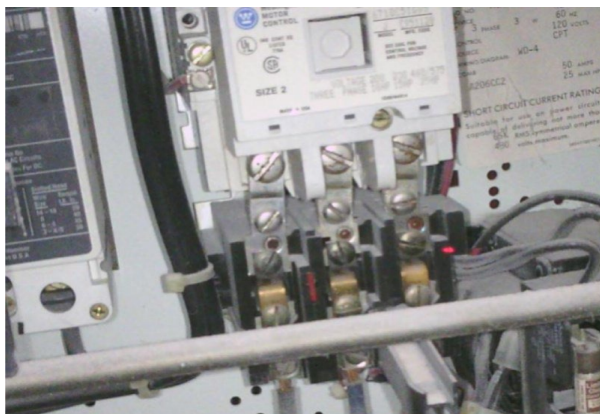
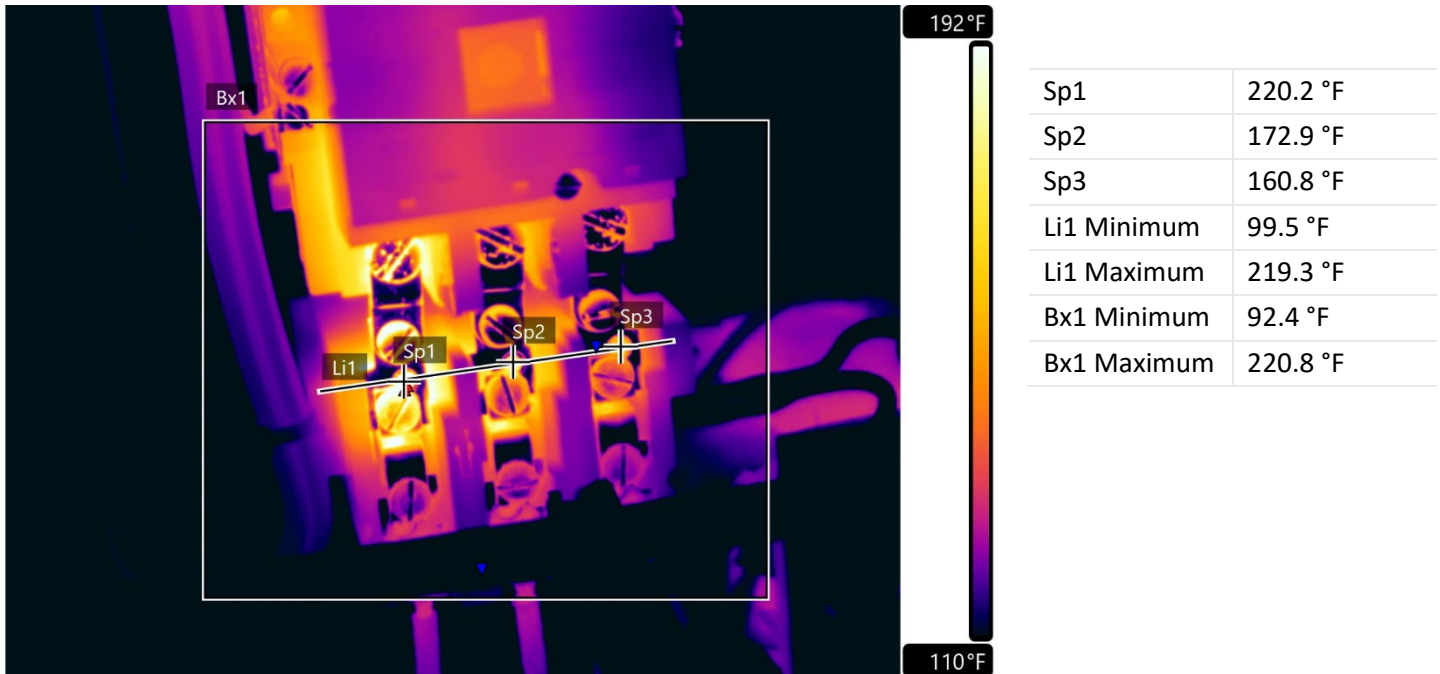
Component	Thermal Heaters
Equipment/Bucket ID	MCC-10A1 M0168 Perlite Expander Exhaust Fan 1



Fault	Thermal Heater Issue
Defect Rating	CLASS I

Recommendations
There may be an issue with the B phase thermal heater. Inspect heaters as time allows.

Component	Thermal Heater
Equipment/Bucket ID	M0174 Perlite Expander Fan 2



Fault	Thermal Heater Issue
Defect Rating	CLASS I

Recommendations	There may be an issue with the A phase thermal heater. Inspect heaters as time allows.
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Summary

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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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