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# QualiTest IR Radiometric Survey Report



## Chemours Transformers

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Job Number	141055
Survey Date	10-28-19
Report Date	10-28-19

# QualiTest IR Radiometric Survey Report



All electrical panels were scanned using a FLIR P60 infrared camera. The following report only contains defects that were found during the survey. Below is our classification system for each defect contained in this report. If there are any questions or comments, please feel free to contact us at any time.

**Hi-Speed Industrial Service QualiTest Diagnostics** employs a three-step 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; continue to monitor.

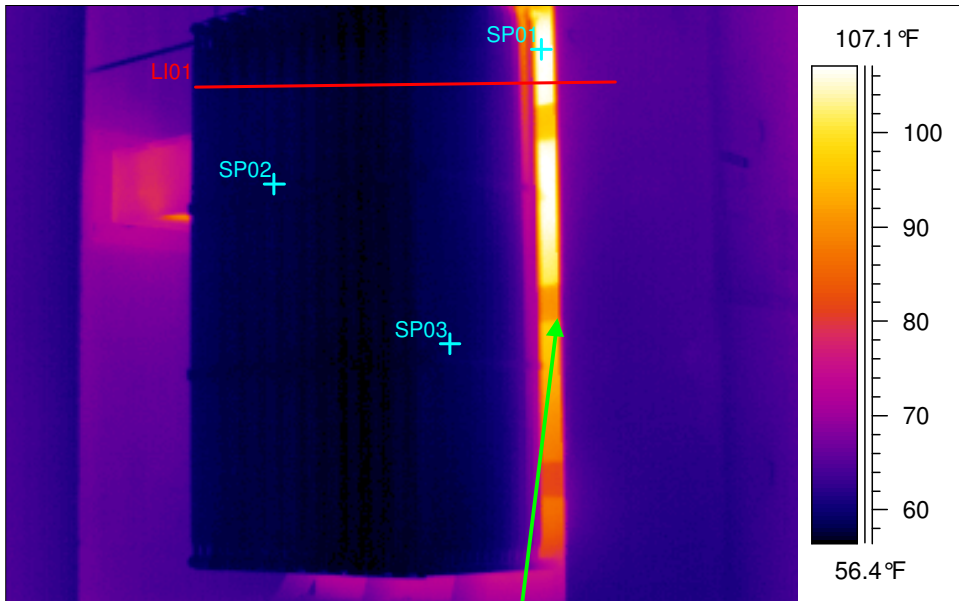
**CLASS II** - A defect or defects are present that are likely to cause a failure in the short term (less than 2 months). Should be addressed as soon as is practical, on a high maintenance priority. Consideration should be given to increased monitoring frequency.

**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.

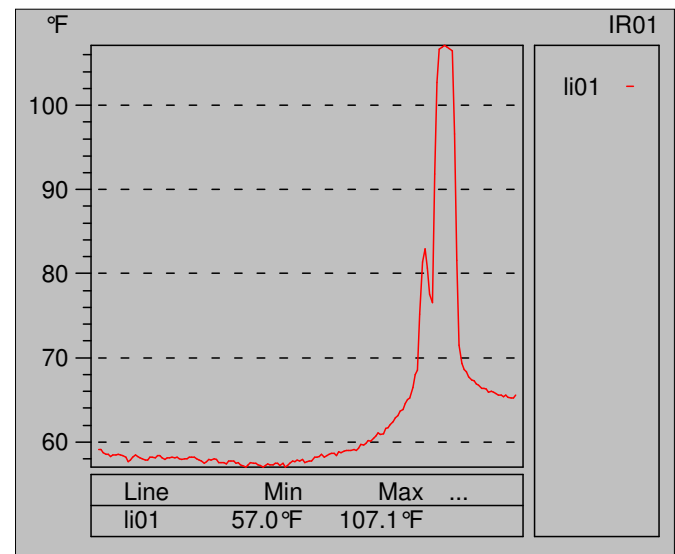
**Hi-Speed Industrial Service** tests and inspects industrial and equipment and makes recommendations concerning maintenance and repairs based on its experience in the field of industrial repair and maintenance. The information provided herein is provided as an opinion only, not as a guaranty or warranty of.



Component	Equipment/Bucket ID	Plant/Area	Date
Transformer	Sub E3 East Side	Chemours	10-28-19



Label	Value
IR : max	107.8°F
IR : min	56.4°F
SP01	107.6°F
SP02	57.9°F
SP03	58.4°F
LI01 : max	107.1°F
LI01 : min	57.0°F



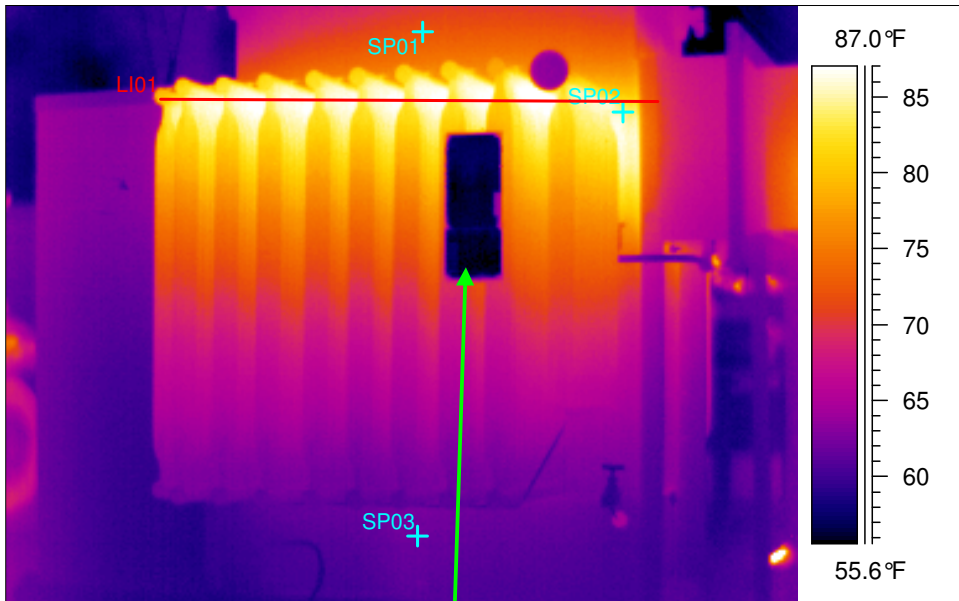
<b>Fault</b>	No cooling
<b>Defect Rating</b>	Class III

### Recommendation

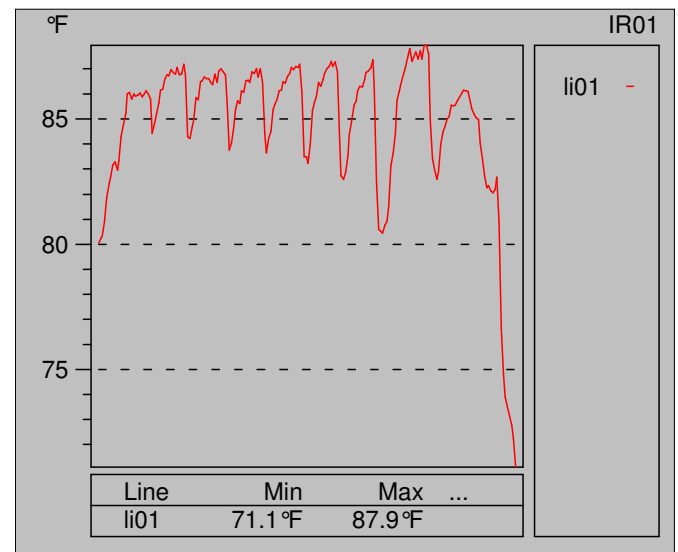
East Radiator complete section is cold. Section could possibly be shut off manually, completely blocked or oil level is way too low. Recommend inspection ASAP to confirm status.



Component	Equipment/Bucket ID	Plant/Area	Date
Transformer	Sub E7 North Side	Chemours	10-28-19



Label	Value
IR : max	110.2°F
IR : min	54.7°F
SP01	72.2°F
SP02	84.5°F
SP03	62.0°F
LI01 : max	87.9°F
LI01 : min	71.1°F



<b>Fault</b>	None
<b>Defect Rating</b>	NA

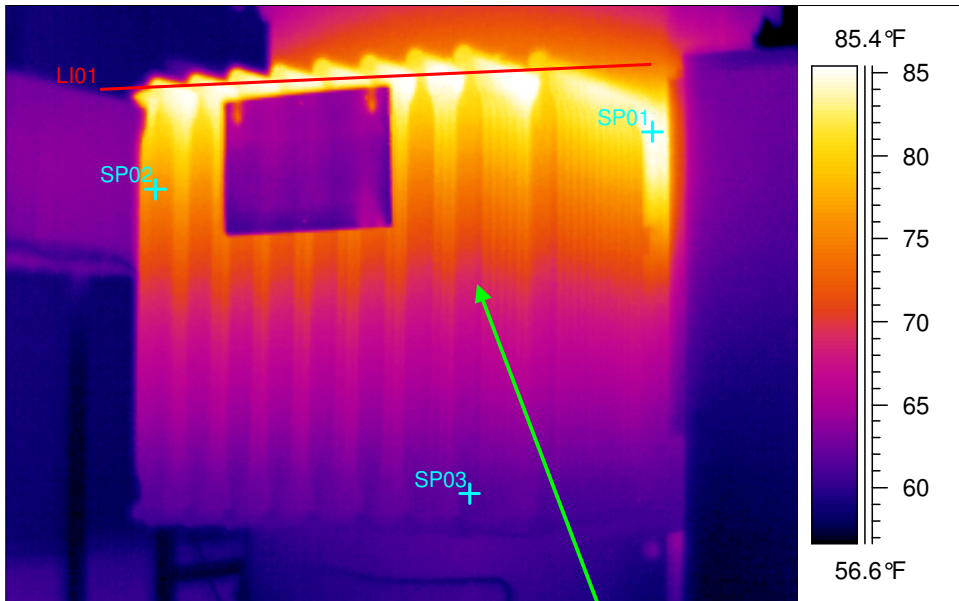
### Recommendation

Unit North radiator appears to be operating normally.

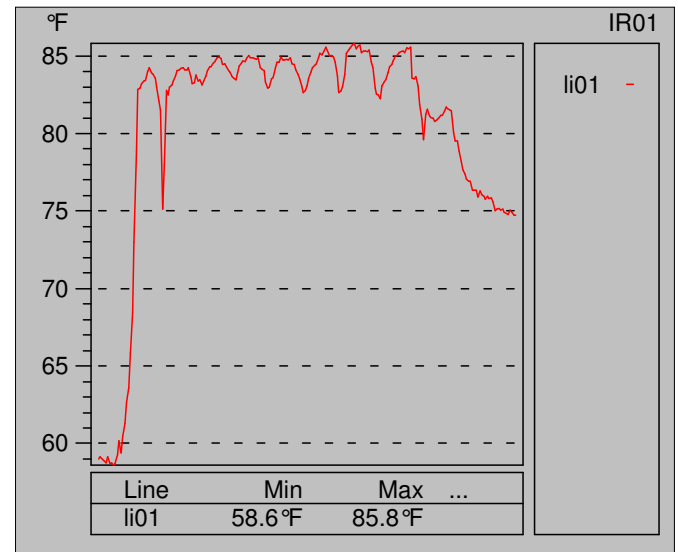




Component	Equipment/Bucket ID	Plant/Area	Date
Transformer	Sub E7 South Side	Chemours	10-28-19



Label	Value
IR : max	86.7°F
IR : min	52.8°F
SP01	85.5°F
SP02	76.2°F
SP03	61.3°F
LI01 : max	85.8°F
LI01 : min	58.6°F



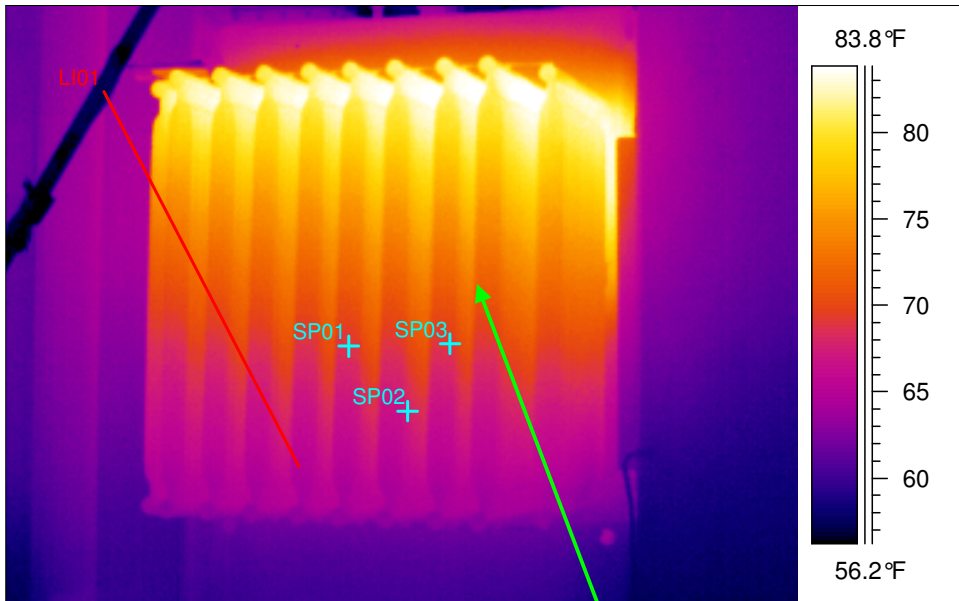
<b>Fault</b>	None
<b>Defect Rating</b>	NA

### Recommendation

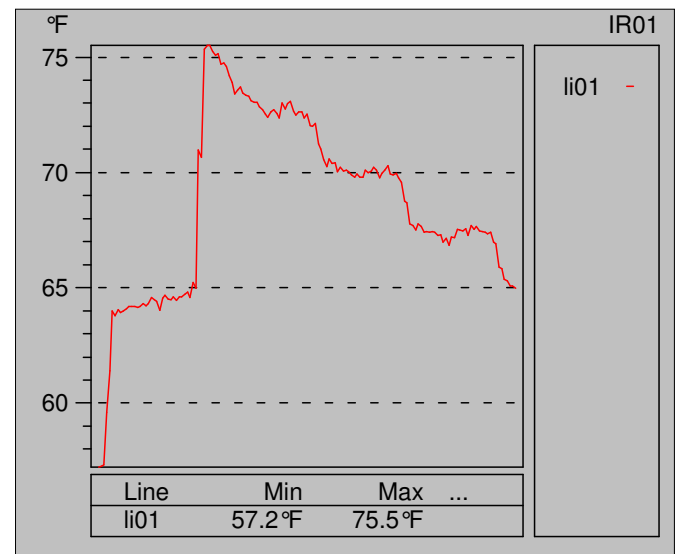
Unit South radiator appears to be operating properly.



Component	Equipment/Bucket ID	Plant/Area	Date
Transformer	Sub 251 West Side	Chemours	10-28-19



Label	Value
IR : max	84.7°F
IR : min	55.4°F
SP01	69.0°F
SP02	67.8°F
SP03	69.2°F
LI01 : max	75.5°F
LI01 : min	57.2°F



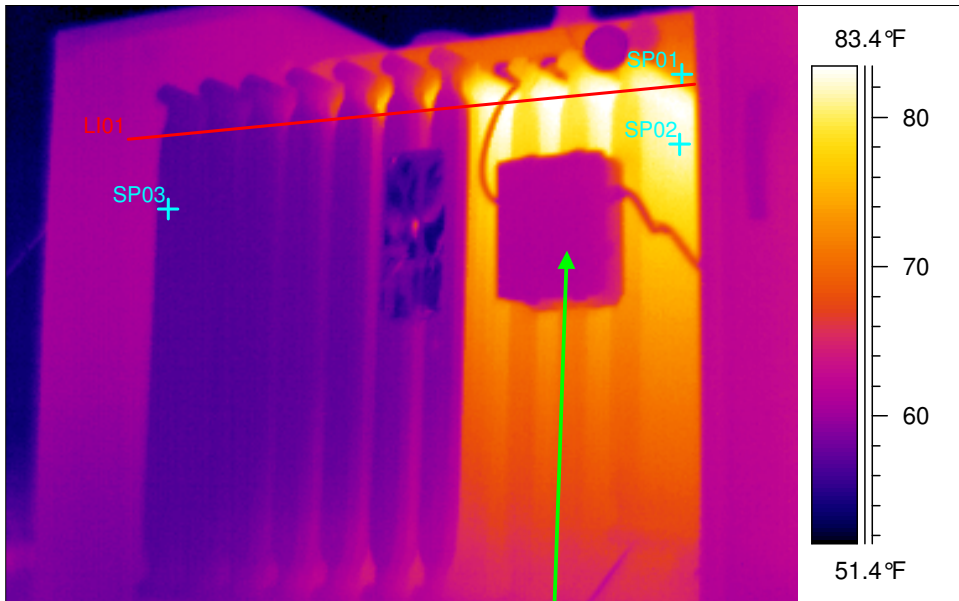
<b>Fault</b>	None
<b>Defect Rating</b>	NA

### Recommendation

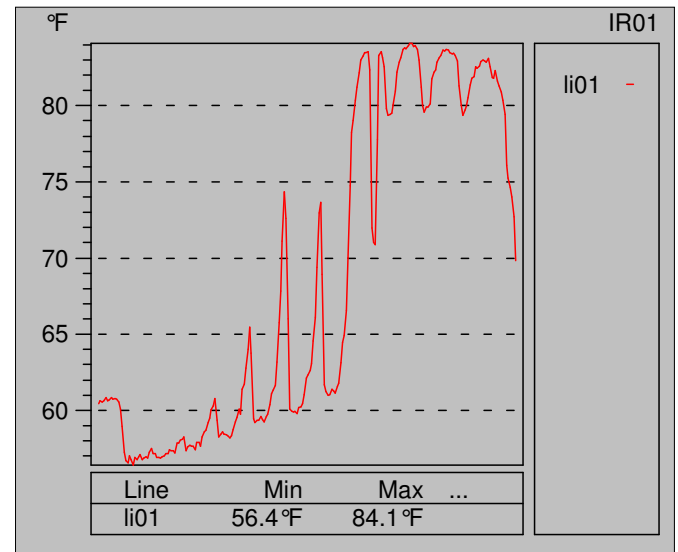
Unit West radiator appears to be operating normally.



Component	Equipment/Bucket ID	Plant/Area	Date
Transformer	Sub 251 East Side	Chemours	10-28-19



Label	Value
IR : max	84.5°F
IR : min	50.5°F
SP01	72.8°F
SP02	82.3°F
SP03	56.8°F
LI01 : max	84.1°F
LI01 : min	56.4°F



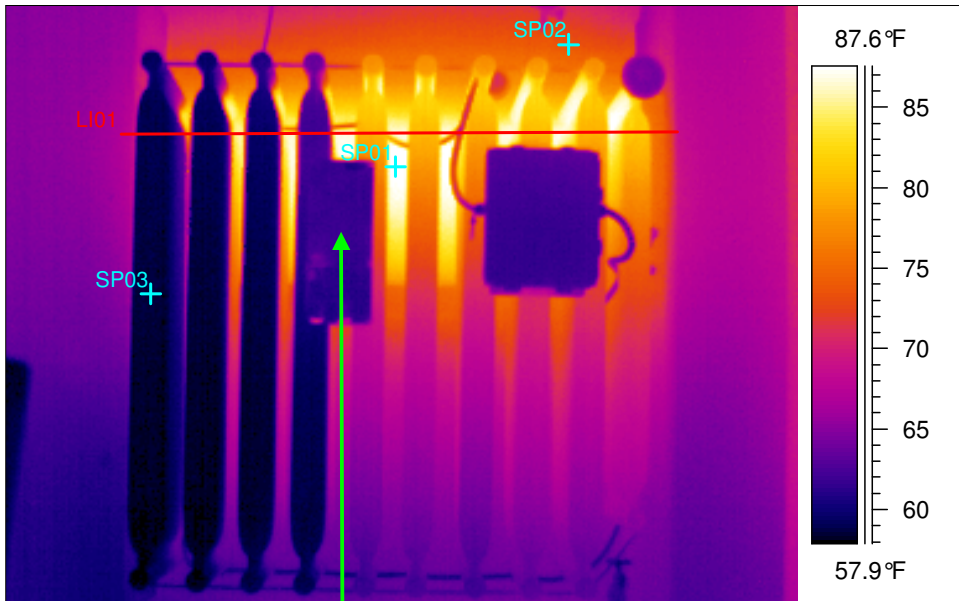
<b>Fault</b>	Blocked fins or low oil.
<b>Defect Rating</b>	Class II

### Recommendation

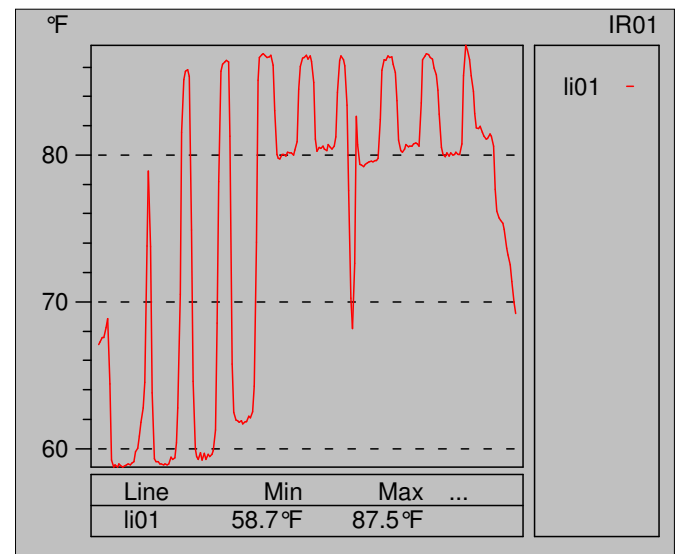
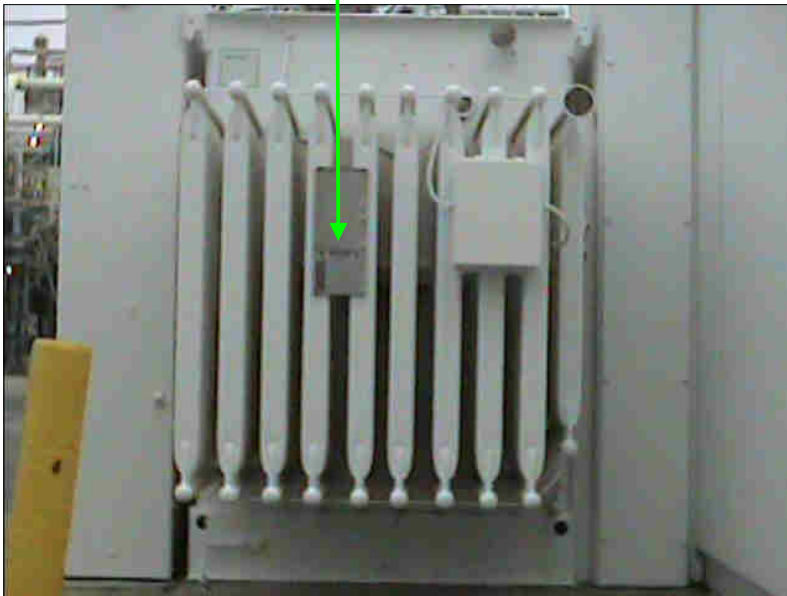
Multiple outboard cooling fins in the South radiator appear to be blocked. Low oil level in the transformer could also be responsible for defect. Inspect in the near future.



Component	Equipment/Bucket ID	Plant/Area	Date
Transformer	Sub 258 North Side	Chemours	10-28-19



Label	Value
IR : max	88.4°F
IR : min	57.6°F
SP01	88.0°F
SP02	73.5°F
SP03	58.6°F
LI01 : max	87.5°F
LI01 : min	58.7°F



<b>Fault</b>	Blocked fins or low oil
<b>Defect Rating</b>	Class II

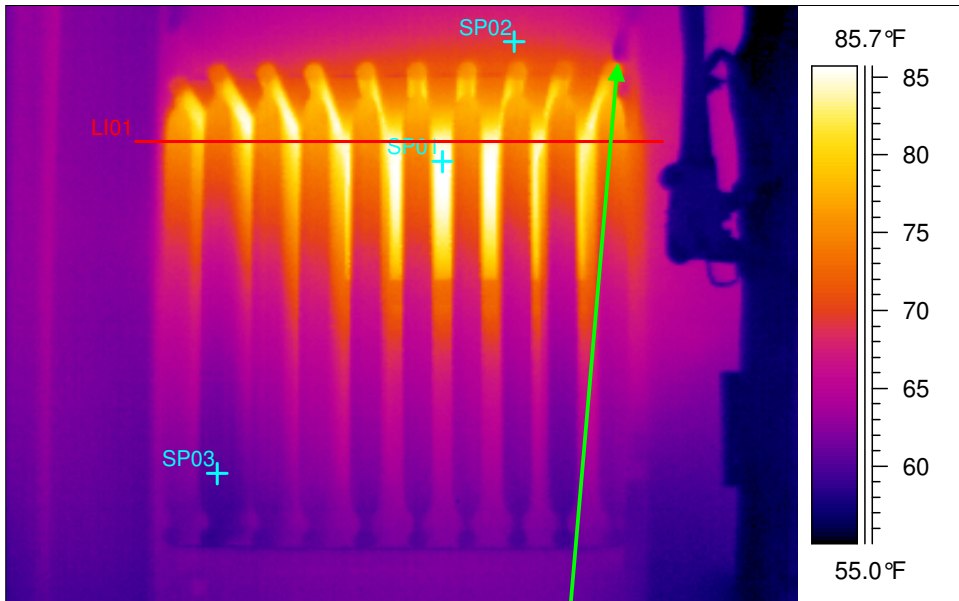
### Recommendation

Multiple outboard cooling fins in the North radiator appear to be blocked. Another possibility is low oil level. Please inspect the unit during the next opportunity.

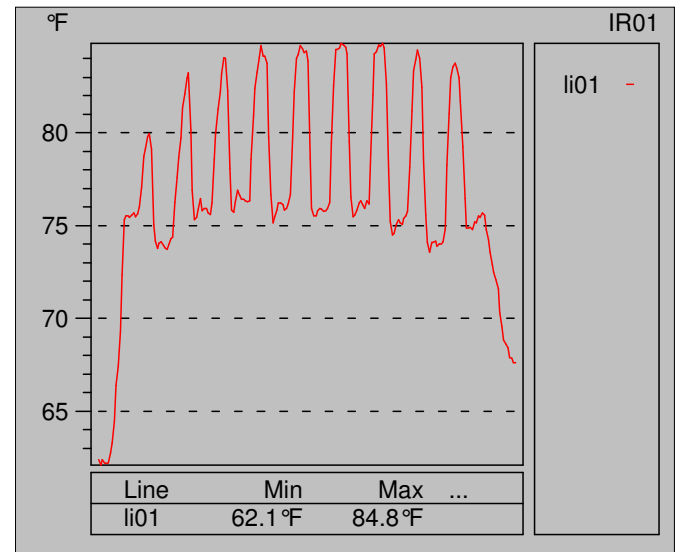
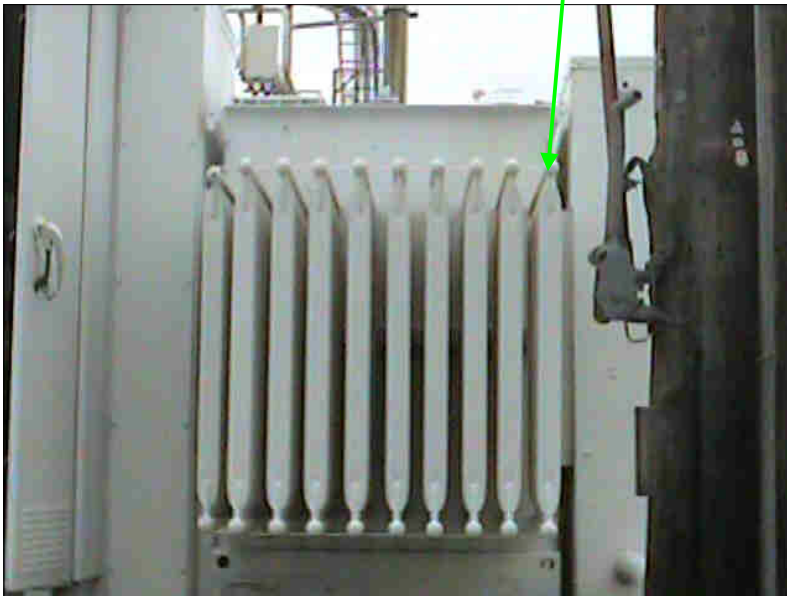




Component	Equipment/Bucket ID	Plant/Area	Date
Transformer	Sub 258 South Side	Chemours	10-29-19



Label	Value
IR : max	86.4°F
IR : min	54.3°F
SP01	86.0°F
SP02	69.3°F
SP03	60.1°F
LI01 : max	84.8°F
LI01 : min	62.1°F



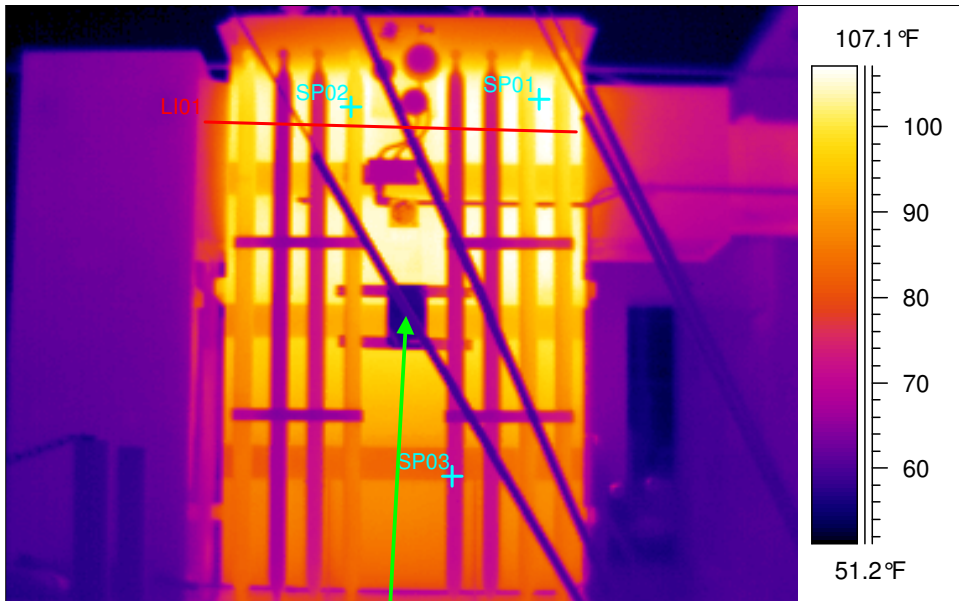
<b>Fault</b>	None
<b>Defect Rating</b>	NA

### Recommendation

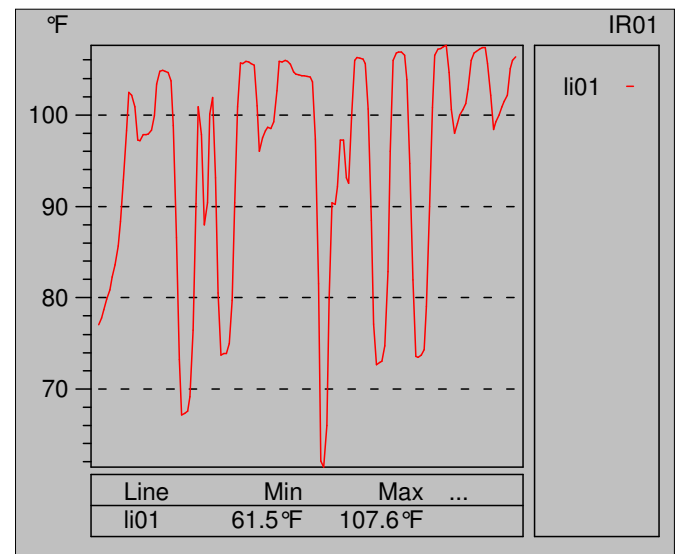
Unit South radiators appears to be operating normally



Component	Equipment/Bucket ID	Plant/Area	Date
Transformer	Sub E3 West	Chemours	10-28-19



Label	Value
IR : max	108.2°F
IR : min	50.8°F
SP01	107.0°F
SP02	97.6°F
SP03	71.1°F
LI01 : max	107.6°F
LI01 : min	61.5°F



<b>Fault</b>	Blocked cooling fins
<b>Defect Rating</b>	Class II

### Recommendation

About half of the North radiator cooling fins appear to be blocked. Inspect at the next praticle time.  
Have the oil level checked also just to be safe.