



Infrared Thermography Report

SAMPLE

Prepared by:

INFRARED SOLUTIONS

Infrared Thermography Consultants

Consultancy / Training

**56 Long View Road, Croydon South, Victoria 3136
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Order No. TBA	Job No. TBA	Survey Date 01-01-01
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INFRARED SOLUTIONS

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Electrical

Mechanical

Refractory

Predictive Maintenance

Training

01st January, 2001

Contact
Company
Address
Address

RE: Infrared Thermography Survey

The IR images taken on the 01st January, 2001 have been analysed and apparent problems diagnosed:

For – Company - Sample
Site - XXXX

PRIORITY JUDGEMENT TERMINOLOGY

- 0 ----- Machine not monitored this survey
- 1 ----- Serious
- 2 ----- Intermediate
- 3 ----- Routine
- 4 ----- Good

Regards,

Adam Walker
Infrared Solutions

SAMPLE

PRIORITY JUDGEMENT TERMINOLOGY

- 0 **Cabinet not under load this survey**
- 1 (>40° delta temp) **Serious** – Repair within 1-2 weeks. Replace component; inspect for damage to adjacent components
- 2 (20-40° delta temp) **Intermediate** – Repair within 2-4 weeks Inspect for physical damage and watch for load changes. There is a chance of component damage.
- 3 (<20° delta temp) **Routine** – Repair during regular maintenance. Little probability of physical damage
- 4 **Good** – Scanned components or area is OK for continued use

TERMS

- Fault** Highest temperature measured on faulty component
- Reference** Temperature of an identical component operating at a similar load. ie. Normal operating temperature of component.
- Delta Temp.** Difference between fault temperature and reference temperature.

All care has been taken to ensure that only cabinets, which are under load, have been scanned. However in some cabinets, not all components are under load at the same time. Although a cabinet may have been given a priority of good, no responsibility can be taken for components that were not under load at the time of the survey.

Priority Table

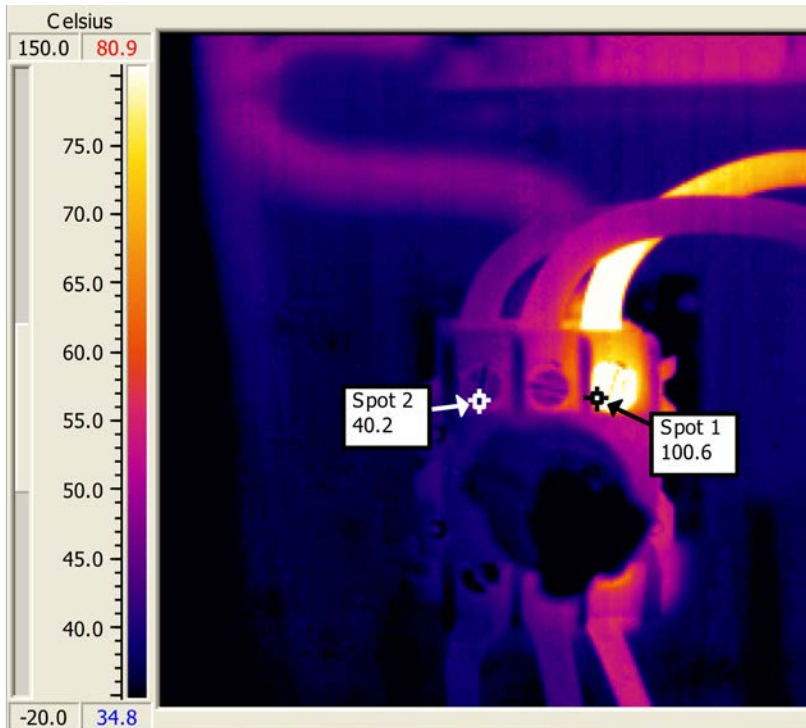
IR: 0 1 2 3 4

Machine Name	Machine ID	Survey Date	Priority 0 Not Measured	Priority 1 Serious	Priority 2 Intermediate	Priority 3 Routine	Priority 4 Good
Motor Control Centre 37.1	MCC 37.1	01-Jan-01					4
Line 7 Extruder Control Panel	L7	01-Jan-01		1			
Gal Plant P&C No.41	Gal Plant	01-Jan-01					4
Motor Control Cabinet 1	MCC1	01-Jan-01					4
Line 1	L1	01-Jan-01		1			
Klopper No.1 Control Panel	Mirror	01-Jan-01			2		
Compressor 1	A66EE020A	01-Jan-01					4
Flocor Exhaust Fan	Trade Waste	01-Jan-01					4
Sag Conveyors	SC	01-Jan-01					4

Line 7 Extruder

Fault Description
Main Isolator Connection end hot Loose or improper connection
23-May-06 Adam Walker

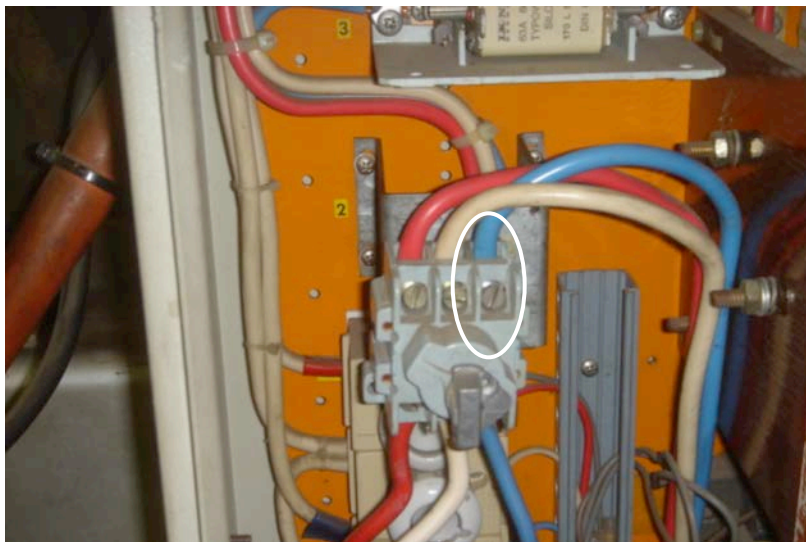
Fault Location	
Cabinet ID	Line 7 Extruder
Point ID	RHS-2
Component ID	Main Isolator
Fault Location	Blue Phase



Priority – SERIOUS
Repair within 1-2 weeks. Replace component; inspect for damage to adjacent component.

Recorded Temperatures	
Fault	100.6 C
Reference	40.2 C
Ambient	21.0 C
Delta Temp.	60.4 C

Electrical Parameters	
Phases	3
Voltage	415
Emissivity	0.900



Recommended Actions
Rework the connection ensuring it is clean and tight.

Comments
This fault was present last survey and is now a lot hotter.

Action Taken
.....
.....
.....

Line 1

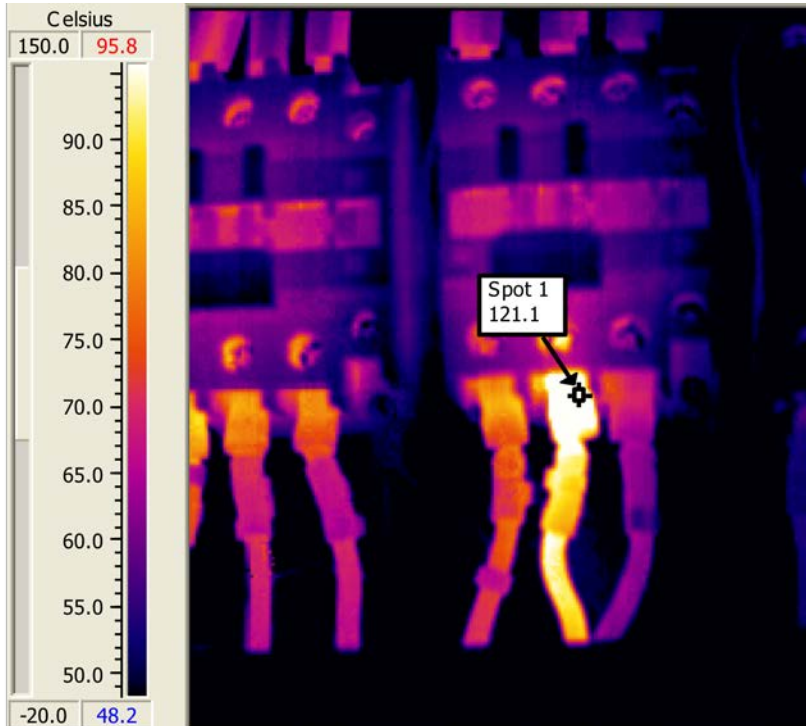
Fault Description

Contactors
Connection end hot
Loose or improper connection

13-Apr-06
Adam Walker

Fault Location

Cabinet ID Line 1
Point ID Curing Oven
Component ID Contactor K194
Fault Location T2



Priority – **SERIOUS**

Repair within 1-2 weeks.
Replace component; inspect for damage to adjacent component.

Recorded Temperatures

Fault 121.1 C
Reference 58.0 C
Ambient 21.0 C
Delta Temp. 63.1 C

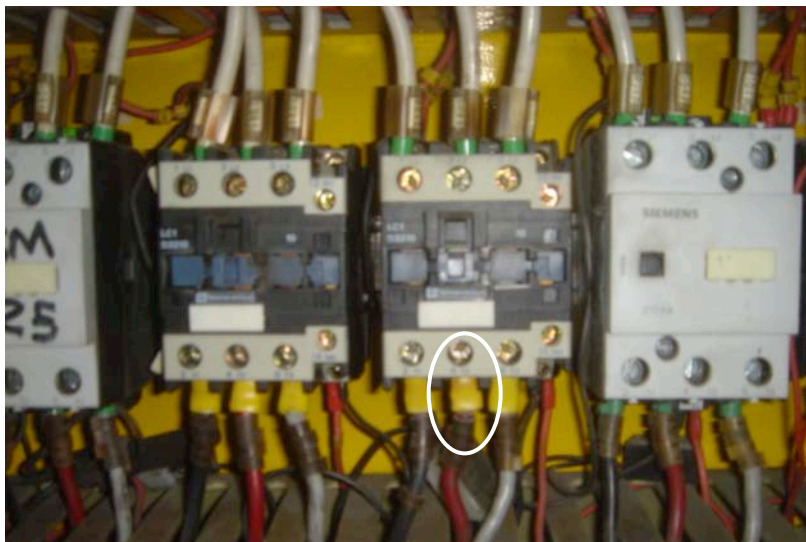
Electrical Parameters

Phases 3
Voltage 415
Emissivity 0.900

Recommended Actions

Rework the connection.
Re-crimp new lug to wire.

Comments

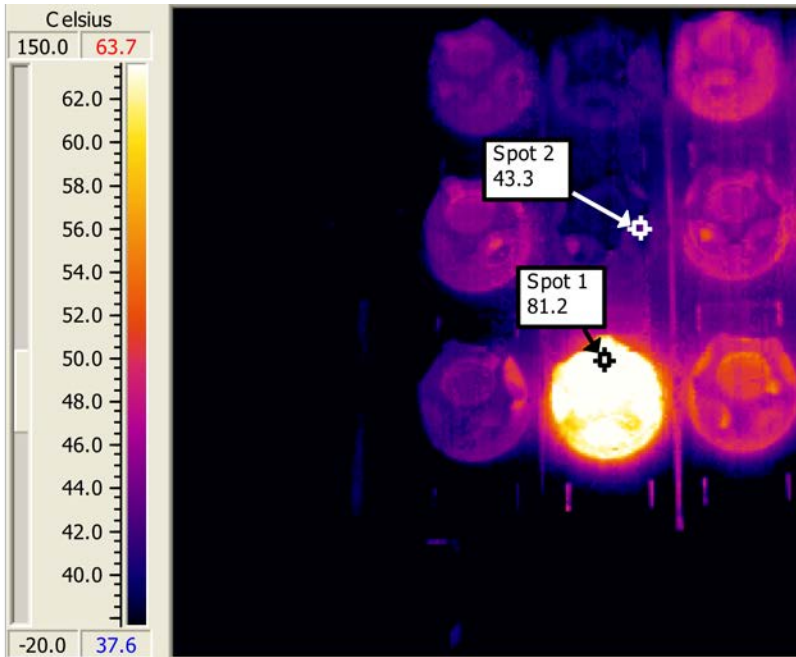


Action Taken

Mirror Line

Fault Description
Fuse Fuse body hot Loose connection or loose fuse in holder
30-May-06 Adam Walker

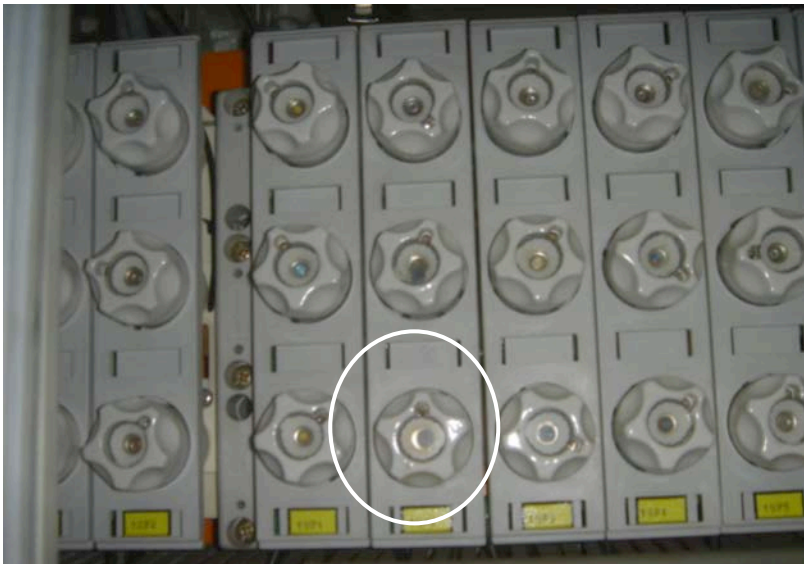
Fault Location	
Cabinet ID	Klopper No. 1
Point Description	Control Panel
Component ID	Fuse 19F2
Fault Location	Bottom phase



Priority – INTERMEDIATE
Repair within 2-4 weeks. Inspect for physical damage and watch for load changes. There is a chance of component damage.

Recorded Temperatures	
Fault	81.2 C
Reference	43.3 C
Ambient	21.0 C
Delta Temp.	37.9 C

Electrical Parameters	
Phases	3
Voltage	415
Emissivity	0.900



Recommended Actions
Rework the connection. Ensure fuse holder is tight.

Comments

Action Taken