



WESAM SYSTEMS

**Thermography Inspection for Electrical Equipment  
at  
\*\*\*\*\***

**Date:  
5-8/6/2014**



WESAM SYSTEMS

**Thermal Inspection for Electrical Equipment  
Using Advanced FLIR T640 Thermal Camera**

**For**

**Customer: \*\*\*\*\***

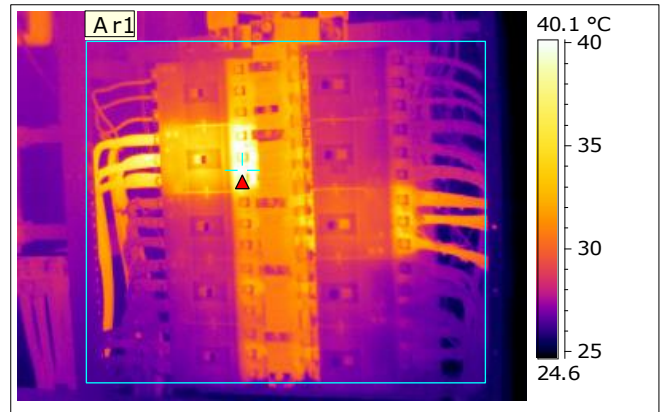
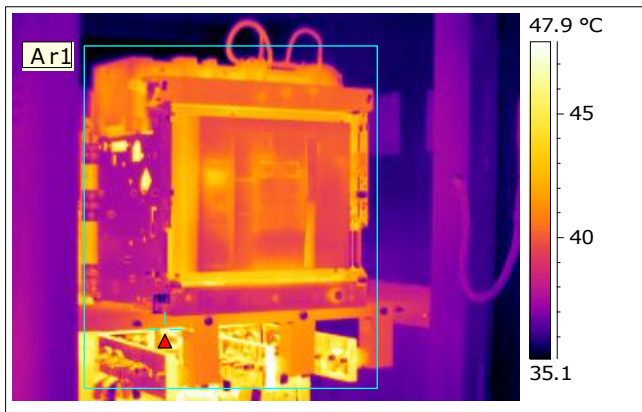
**Location: \*\*\*\*\***

**5-8/6/2014**

**By**

**Engr. Adrian Arigo**

**Associate Electrical Engineer, SCE**





WESAM SYSTEMS

**Thermography Inspection for Electrical Equipment  
at  
\*\*\*\*\***

**Date:  
5-8/6/2014**

**Inspection Site Information**

<b>Customer</b>	*****
<b>Address</b>	*****
<b>Contact Person</b>	*****
<b>Mobile</b>	*****
<b>Email</b>	*****
<b>WESAM Contact person</b>	Mr. Abdulrahman Al-Tayaran
<b>Phone number</b>	0543865200
<b>E-mail address</b>	<a href="mailto:abdulrahman@wesams.com">abdulrahman@wesams.com</a>
<b>Thermographer</b>	Engr. Adrian Arigo

**Tool used for the service:**

Using Advanced FLIR T640 Thermal Camera

**Engineer's Qualifications:**

Engr. Adrian Arigo, Associate Electrical Engineer, SCE

**Contact Details:**

WESAM SYSTEMS Co. Ltd  
101 Business Tower  
King Abdulaziz road, Jubail  
Kingdom of Saudi Arabia  
Riyadh Tel: 0112795057  
Jubail Tel: 0133616126  
Jeddah Tel: 0122203061

Email: [info@wasams.com](mailto:info@wasams.com)

**Overview of Fault Rating:**

<b>0:</b> Normal	Temp rise 0-5 °C	No action
<b>1:</b> Low grade	Temp rise 5-10 °C	To be monitored – Plan new inspection
<b>2:</b> Medium grade	Temp rise 10-35 °C	Repair at scheduled shut down
<b>3:</b> High	Temp rise >35 °C	Repair immediately



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**Date:  
5-8/6/2014**

**Summary of Findings**

<b>Location</b>	<b>Equipment</b>	<b>Fault</b>	<b>Recommendation</b>	<b>Page Number</b>
GT No. 21 Auxiliaries	Disc cavity cooling motor and belt A	Normal	No Action	4
GT No. 21 Auxiliaries	Disc cavity cooling motor and belt B	Normal	No Action	5
GT No. 21 Auxiliaries	Water tank motor and centrifugal pump	Normal	No Action	6-7
GT No. 7 Auxiliaries	Lube oil cooling motor & gearbox 1	Normal	No Action	8-9
GT No. 7 Auxiliaries	Lube oil cooling motor & gearbox 2	Normal	No Action	10
GT No. 7 Auxiliaries	Lube oil cooling motor & gearbox 3	Normal	No Action	11-12
GT No. 7 Auxiliaries	Lube oil cooling motor & gearbox 4	Normal	No Action	13-14
GT No. 7 Auxiliaries	Disc cavity motor 1	Normal	No Action	15
GT No. 7 Auxiliaries	Disc cavity motor 2	Normal	No Action	16
GT No. 10 Auxiliaries	Disc cavity motor 1	Normal	No Action	17
GT No. 10 Auxiliaries	Disc cavity motor 2	Normal	No Action	18
GT No. 5 Auxiliaries	Lube oil cooling motor and gearbox1	Normal	No Action	19-20

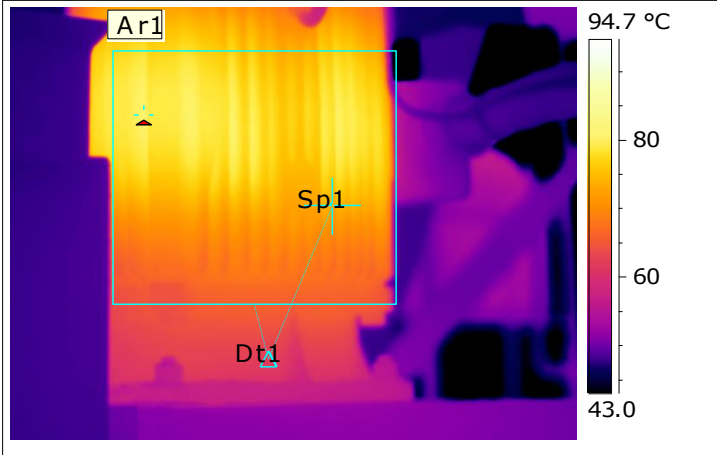


WESAM SYSTEMS

# Thermography Inspection for Electrical Equipment at \*\*\*\*\*

Date:  
5-8/6/2014

## Infrared Thermogram 6/9/2014



Location	GT No.21 Auxiliaries
Equipment	Disc cavity cooling motor & belt A

Image File Name	FLIR_0040.jpg
Image Date	6/9/2014
Image Time	08:56:15

Atmospheric Temperature	20.0 °C
Relative Humidity	50%
Emissivity	0.90
Object Distance	1.0 m

Ar1 Max. Temperature	80.2 °C
Ar2 Max. Temperature	72.6 °C
Dt1 Value	7.6 °C

## Photo and Identification



Severity Rating & Recommendation			
1	Low ( $\Delta = 5-10^{\circ}\text{C}$ )	To be monitored	<input type="checkbox"/>
2	Medium ( $\Delta = 10-35^{\circ}\text{C}$ )	Repair at schedule outage	<input type="checkbox"/>
3	High ( $\Delta > 35^{\circ}\text{C}$ )	Repair immediately	<input type="checkbox"/>

### Analysis:

## Corrective action:

In maximum load, this AC motor, field windings (Ar1 of thermal image) model reference temperature should not exceed 100°C.

### Reported by :

Engr. Adrian Arigo Signature: *Arigo* .....

date: 5-8/6/2014

Repaired by: .....

date:

Comment: .....

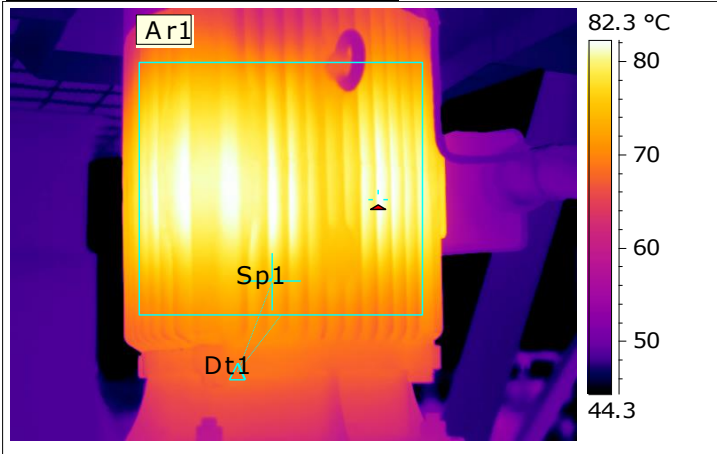


WESAM SYSTEMS

# Thermography Inspection for Electrical Equipment at \*\*\*\*\*

Date:  
5-8/6/2014

### Infrared Thermogram 6/9/2014



Location	GT No.21 Auxiliaries
Equipment	Disc cavity cooling motor & belt B

Image File Name	FLIR_0042.jpg
Image Date	6/9/2014
Image Time	08:57:55

Atmospheric Temperature	20.0 °C
Relative Humidity	50%
Emissivity	0.90
Object Distance	1.0 m

Ar1 Max. Temperature	82.6 °C
Ar2 Max. Temperature	75.1 °C
Dt1 Value	7.5 °C

### Photo and Identification



Severity Rating & Recommendation			
1	Low ( $\Delta = 5-10^{\circ}\text{C}$ )	To be monitored	<input type="checkbox"/>
2	Medium ( $\Delta = 10-35^{\circ}\text{C}$ )	Repair at schedule outage	<input type="checkbox"/>
3	High ( $\Delta > 35^{\circ}\text{C}$ )	Repair immediately	<input type="checkbox"/>

### Analysis:

### Corrective action:

In maximum load, this AC motor, field windings (Ar1 of thermal image) model reference temperature should not exceed 100°C.

### Reported by :

Engr. Adrian Arigo Signature: *Arigo*

date: 5-8/6/2014

Repaired by: .....

date:

Comment: .....

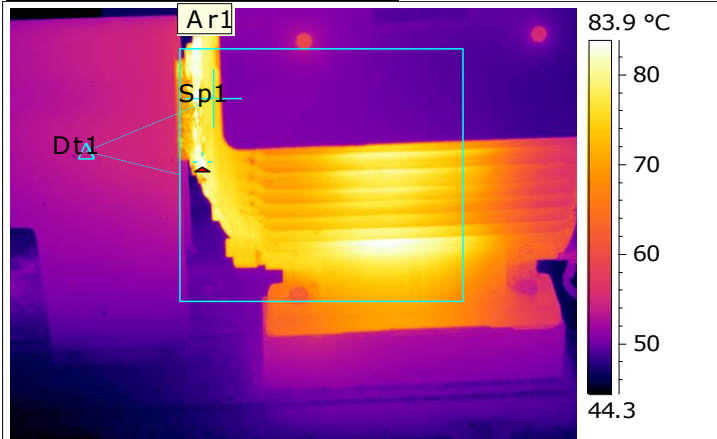


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### Thermography Inspection for Electrical Equipment at \*\*\*\*\*

Date:  
5-8/6/2014

#### Infrared Thermogram 6/9/2014



Location	GT No.21 Auxiliaries
Equipment	Water tank motor A

Image File Name	FLIR_0044.jpg
Image Date	6/9/2014
Image Time	08:58:42

Atmospheric Temperature	20.0 °C
Relative Humidity	50%
Emissivity	0.90
Object Distance	1.0 m

Ar1 Max. Temperature	84.4 °C
Ar2 Max. Temperature	75.2 °C
Dt1 Value	9.2 °C

#### Photo and Identification



Severity Rating & Recommendation			
1	Low ( $\Delta = 5-10^{\circ}\text{C}$ )	To be monitored	<input type="checkbox"/>
2	Medium ( $\Delta = 10-35^{\circ}\text{C}$ )	Repair at schedule outage	<input type="checkbox"/>
3	High ( $\Delta > 35^{\circ}\text{C}$ )	Repair immediately	<input type="checkbox"/>

#### Analysis:

#### Corrective action:

In maximum load, this bearing, plain types material of the motor (Ar1 of thermal image) model reference temperature should not exceed 121°C.

#### Reported by :

Engr. Adrian Arigo Signature:.....

date:5-8/6/2014

Repaired by: .....

date:

Comment:.....

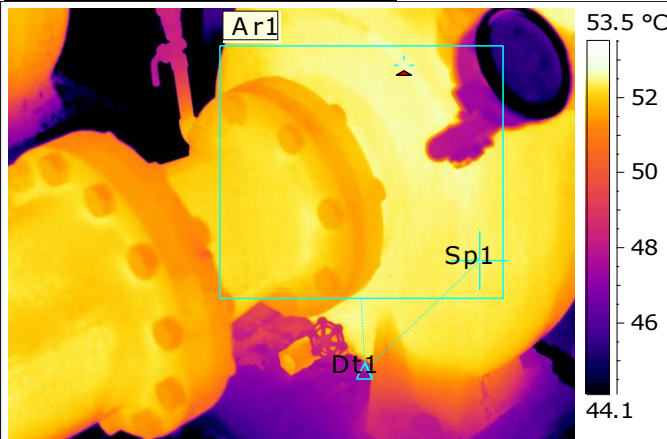


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# Thermography Inspection for Electrical Equipment at \*\*\*\*\*

Date:  
5-8/6/2014

### Infrared Thermogram 6/9/2014



Location	GT No.21 Auxiliaries
Equipment	Centrifugal Pump A

Image File Name	FLIR_0046.jpg
Image Date	6/9/2014
Image Time	09:01:09

Atmospheric Temperature	20.0 °C
Relative Humidity	50%
Emissivity	0.90
Object Distance	1.0 m

Ar1 Max. Temperature	52.7 °C
Sp1 Max. Temperature	52.4 °C
Dt1 Value	0.3 °C

### Photo and Identification



### Severity Rating & Recommendation

1	Low ( $\Delta = 5-10^{\circ}\text{C}$ )	To be monitored	<input type="checkbox"/>
2	Medium ( $\Delta = 10-35^{\circ}\text{C}$ )	Repair at schedule outage	<input type="checkbox"/>
3	High ( $\Delta > 35^{\circ}\text{C}$ )	Repair immediately	<input type="checkbox"/>

### Analysis:

### Corrective action:

In maximum load, this bearing, plain types material of the gearbox (Ar1 of thermal image) model reference temperature should not exceed 121°C.

### Reported by :

Engr. Adrian Arigo Signature: *Arigo* .....

date: 5-8/6/2014

Repaired by: .....

date:

Comment: .....

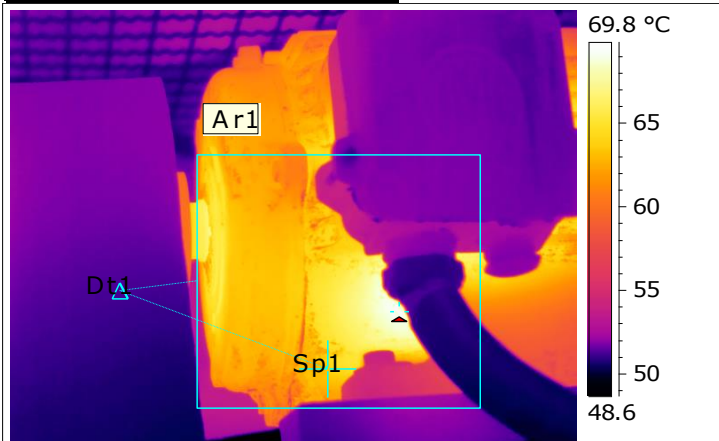


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# Thermography Inspection for Electrical Equipment at \*\*\*\*\*

Date:  
5-8/6/2014

## Infrared Thermogram 6/9/2014



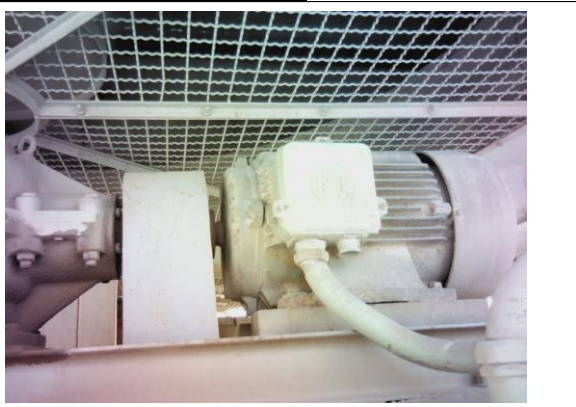
Location	GT No.7 Auxiliaries
Equipment	Lube oil cooling motor 1

Image File Name	FLIR_0047.jpg
Image Date	6/9/2014
Image Time	10:02:01

Atmospheric Temperature	20.0 °C
Relative Humidity	50%
Emissivity	0.90
Object Distance	1.0 m

Ar1 Max. Temperature	69.1 °C
Sp1 Max. Temperature	63.4 °C
Dt1 Value	5.7 °C

## Photo and Identification



Severity Rating & Recommendation			
1	Low ( $\Delta = 5-10^{\circ}\text{C}$ )	To be monitored	<input type="checkbox"/>
2	Medium ( $\Delta = 10-35^{\circ}\text{C}$ )	Repair at schedule outage	<input type="checkbox"/>
3	High ( $\Delta > 35^{\circ}\text{C}$ )	Repair immediately	<input type="checkbox"/>

### Analysis:

Blank space for analysis notes.

## Corrective action:

In maximum load, this AC motor, field windings (Ar1 of thermal image) model reference temperature should not exceed 100°C.

### Reported by :

Engr. Adrian Arigo Signature: *Arigo*

date: 5-8/6/2014

Repaired by: .....

date:

Comment: .....



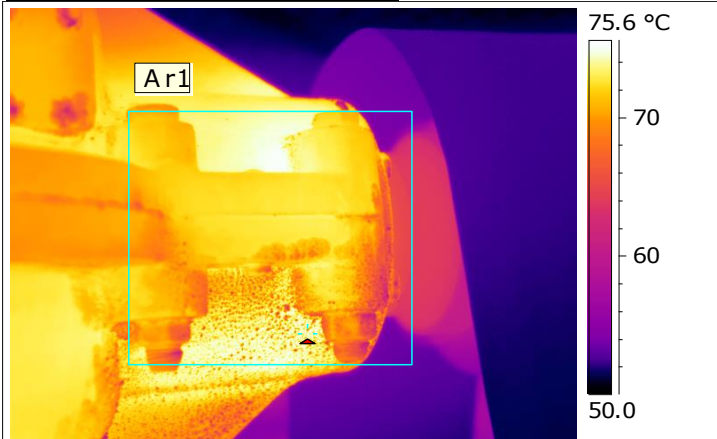


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### Thermography Inspection for Electrical Equipment at \*\*\*\*\*

Date:  
5-8/6/2014

#### Infrared Thermogram 6/9/2014



Location	GT No.7 Auxiliaries
Equipment	Gearbox 1

Image File Name	FLIR_0049.jpg
Image Date	6/9/2014
Image Time	10:03:01

Atmospheric Temperature	20.0 °C
Relative Humidity	50%
Emissivity	0.90
Object Distance	1.0 m

Ar1 Max. Temperature	75.2 °C
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#### Photo and Identification



Severity Rating & Recommendation			
1	Low ( $\Delta = 5-10^{\circ}\text{C}$ )	To be monitored	<input type="checkbox"/>
2	Medium ( $\Delta = 10-35^{\circ}\text{C}$ )	Repair at schedule outage	<input type="checkbox"/>
3	High ( $\Delta > 35^{\circ}\text{C}$ )	Repair immediately	<input type="checkbox"/>

#### Analysis:

#### Corrective action:

In maximum load, this bearing, plain types material of the gearbox (Ar1 of thermal image) model reference temperature should not exceed 121°C.

#### Reported by :

Engr. Adrian Arigo Signature: *Arigo* .....

date: 5-8/6/2014

Repaired by: .....

date:

Comment: .....

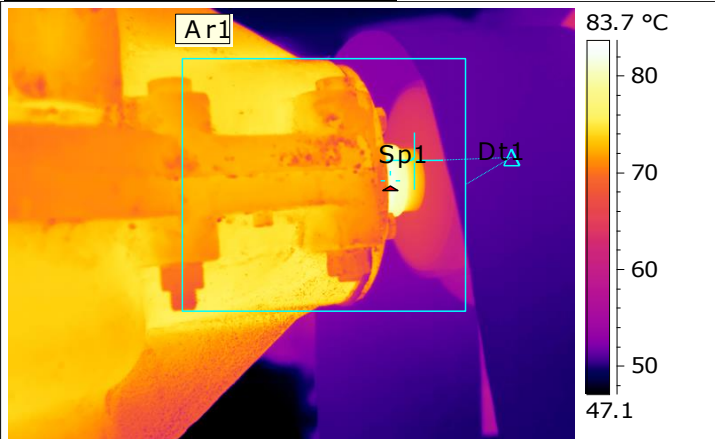


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### Thermography Inspection for Electrical Equipment at \*\*\*\*\*

Date:  
5-8/6/2014

#### Infrared Thermogram 6/9/2014



Location	GT No.7 Auxiliaries
Equipment	Gearbox 2

Image File Name	FLIR_0052.jpg
Image Date	6/9/2014
Image Time	10:04:29

Atmospheric Temperature	20.0 °C
Relative Humidity	50%
Emissivity	0.90
Object Distance	1.0 m

Ar1 Max. Temperature	81.7 °C
Sp1 Max. Temperature	72.8 °C
Dt1 Value	8.9 °C

#### Photo and Identification



Severity Rating & Recommendation			
1	Low ( $\Delta = 5-10^{\circ}\text{C}$ )	To be monitored	<input type="checkbox"/>
2	Medium ( $\Delta = 10-35^{\circ}\text{C}$ )	Repair at schedule outage	<input type="checkbox"/>
3	High ( $\Delta > 35^{\circ}\text{C}$ )	Repair immediately	<input type="checkbox"/>

#### Analysis:

#### Corrective action:

In maximum load, this bearing, plain types material of the gearbox (Ar1 of thermal image) model reference temperature should not exceed 121°C.

#### Reported by :

Engr. Adrian Arigo Signature:.....

date:5-8/6/2014

Repaired by: .....

date:

Comment:.....

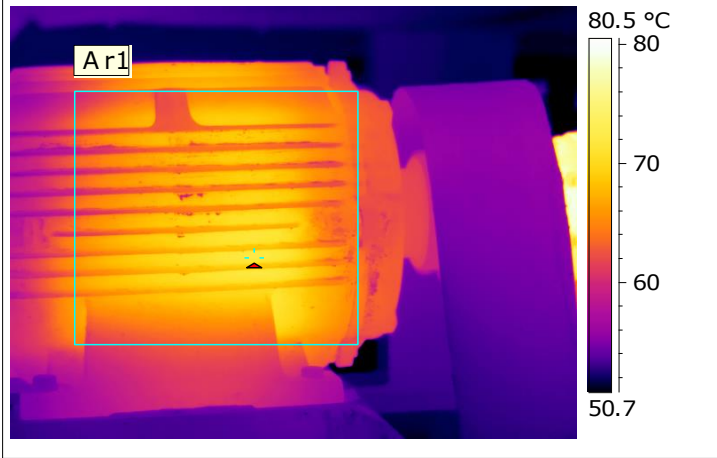


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Thermography Inspection for Electrical Equipment  
at  
\*\*\*\*\*

Date:  
5-8/6/2014

**Infrared Thermogram 6/9/2014**



Location	GT No.7 Auxiliaries
Equipment	Lube oil cooling motor 3

Image File Name	FLIR_0053.jpg
Image Date	6/9/2014
Image Time	10:05:31

Atmospheric Temperature	20.0 °C
Relative Humidity	50%
Emissivity	0.90
Object Distance	1.0 m

Ar1 Max. Temperature	71.8 °C
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**Photo and Identification**



Severity Rating & Recommendation			
1	Low ( $\Delta = 5-10^{\circ}\text{C}$ )	To be monitored	<input type="checkbox"/>
2	Medium ( $\Delta = 10-35^{\circ}\text{C}$ )	Repair at schedule outage	<input type="checkbox"/>
3	High ( $\Delta > 35^{\circ}\text{C}$ )	Repair immediately	<input type="checkbox"/>

**Analysis:**

Blank space for analysis notes.

**Corrective action:**

In maximum load, this AC motor, field windings (Ar1 of thermal image) model reference temperature should not exceed 100°C.

**Reported by :**

Engr. Adrian Arigo Signature:.....

date:5-8/6/2014

Repaired by: .....

date:

Comment:.....

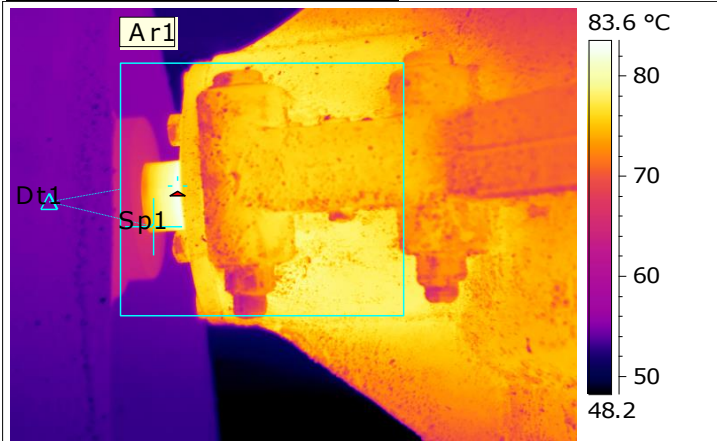


WESAM SYSTEMS

### Thermography Inspection for Electrical Equipment at \*\*\*\*\*

Date:  
5-8/6/2014

#### Infrared Thermogram 6/9/2014



Location	GT No.7 Auxiliaries
Equipment	Gearbox 3

Image File Name	FLIR_0055.jpg
Image Date	6/9/2014
Image Time	10:06:16

Atmospheric Temperature	20.0 °C
Relative Humidity	50%
Emissivity	0.90
Object Distance	1.0 m

Ar1 Max. Temperature	82.9 °C
Sp1 Max. Temperature	75.2 °C
Dt1 Value	7.7 °C

#### Photo and Identification



Severity Rating & Recommendation			
1	Low ( $\Delta = 5-10^{\circ}\text{C}$ )	To be monitored	<input type="checkbox"/>
2	Medium ( $\Delta = 10-35^{\circ}\text{C}$ )	Repair at schedule outage	<input type="checkbox"/>
3	High ( $\Delta > 35^{\circ}\text{C}$ )	Repair immediately	<input type="checkbox"/>

#### Analysis:

#### Corrective action:

In maximum load, this bearing, plain types material of the gearbox (Ar1 of thermal image) model reference temperature should not exceed 121°C.

#### Reported by :

Engr. Adrian Arigo Signature: *Arigo* .....

date: 5-8/6/2014

Repaired by: .....

date:

Comment: .....

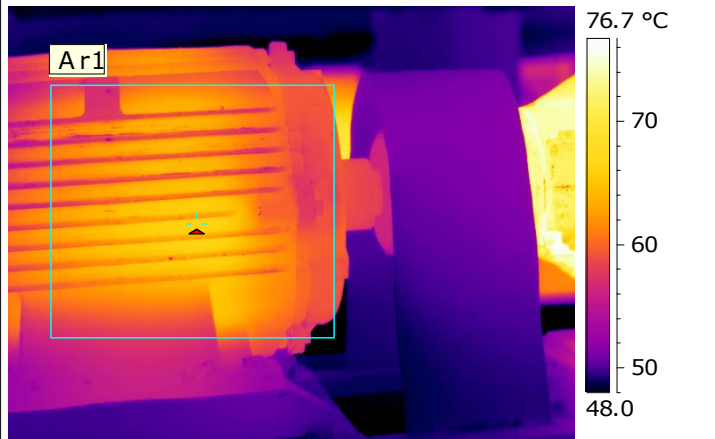


WESAM SYSTEMS

# Thermography Inspection for Electrical Equipment at \*\*\*\*\*

Date:  
5-8/6/2014

## Infrared Thermogram 6/9/2014



Location	GT No.7 Auxiliaries
Equipment	Lube oil cooling motor 4

Image File Name	FLIR_0056.jpg
Image Date	6/9/2014
Image Time	10:09:28

Atmospheric Temperature	20.0 °C
Relative Humidity	50%
Emissivity	0.90
Object Distance	1.0 m

Ar1 Max. Temperature	66.4 °C
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## Photo and Identification



Severity Rating & Recommendation			
1	Low ( $\Delta = 5-10^{\circ}\text{C}$ )	To be monitored	<input type="checkbox"/>
2	Medium ( $\Delta = 10-35^{\circ}\text{C}$ )	Repair at schedule outage	<input type="checkbox"/>
3	High ( $\Delta > 35^{\circ}\text{C}$ )	Repair immediately	<input type="checkbox"/>

### Analysis:

## Corrective action:

In maximum load, this AC motor, field windings (Ar1 of thermal image) model reference temperature should not exceed 100°C.

### Reported by :

Engr. Adrian Arigo Signature:.....

date:5-8/6/2014

Repaired by: .....

date:

Comment:.....

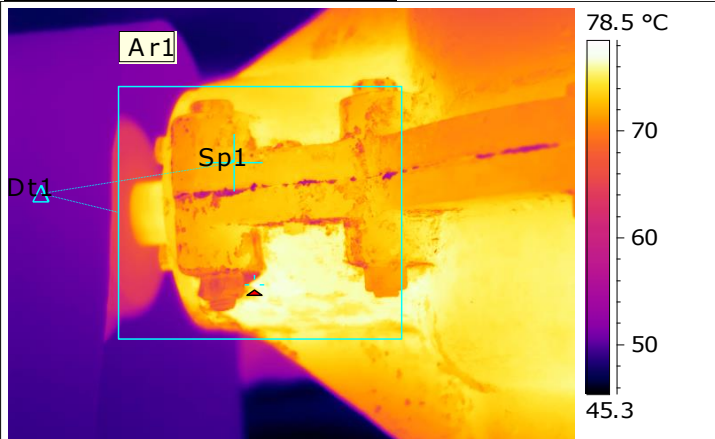


WESAM SYSTEMS

### Thermography Inspection for Electrical Equipment at \*\*\*\*\*

Date:  
5-8/6/2014

#### Infrared Thermogram 6/9/2014



Location	GT No.7 Auxiliaries
Equipment	Gearbox 4

Image File Name	FLIR_0058.jpg
Image Date	6/9/2014
Image Time	10:07:14

Atmospheric Temperature	20.0 °C
Relative Humidity	50%
Emissivity	0.90
Object Distance	1.0 m

Ar1 Max. Temperature	76.7 °C
Sp1 Max. Temperature	73.4 °C
Dt1 Value	4.0 °C

#### Photo and Identification



Severity Rating & Recommendation			
1	Low ( $\Delta = 5-10^{\circ}\text{C}$ )	To be monitored	<input type="checkbox"/>
2	Medium ( $\Delta = 10-35^{\circ}\text{C}$ )	Repair at schedule outage	<input type="checkbox"/>
3	High ( $\Delta > 35^{\circ}\text{C}$ )	Repair immediately	<input type="checkbox"/>

#### Analysis:

#### Corrective action:

In maximum load, this bearing, plain types material of the gearbox (Ar1 of thermal image) model reference temperature should not exceed 121°C.

#### Reported by :

Engr. Adrian Arigo Signature:.....

date:5-8/6/2014

Repaired by: .....

date:

Comment:.....

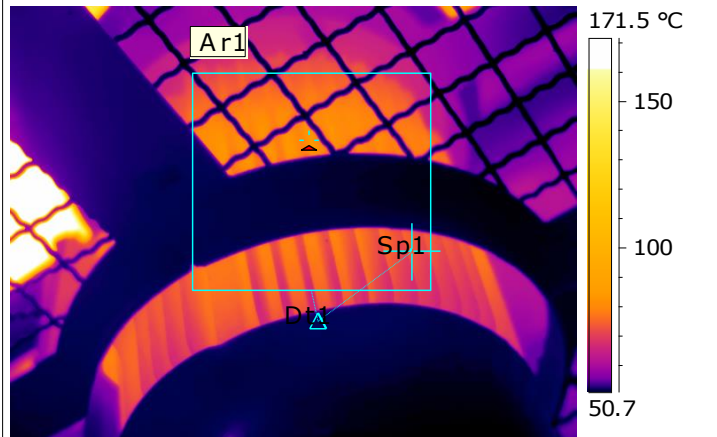


WESAM SYSTEMS

### Thermography Inspection for Electrical Equipment at \*\*\*\*\*

Date:  
5-8/6/2014

#### Infrared Thermogram 6/9/2014



Location	GT No.7 Auxiliaries
Equipment	Disc cavity motor 1

Image File Name	FLIR_0059.jpg
Image Date	6/9/2014
Image Time	10:09:28

Atmospheric Temperature	20.0 °C
Relative Humidity	50%
Emissivity	0.90
Object Distance	1.0 m

Ar1 Max. Temperature	83.5 °C
Sp1 Max. Temperature	73.4 °C
Dt1 Value	10.0 °C

#### Photo and Identification



Severity Rating & Recommendation			
1	Low ( $\Delta = 5-10^{\circ}\text{C}$ )	To be monitored	<input type="checkbox"/>
2	Medium ( $\Delta = 10-35^{\circ}\text{C}$ )	Repair at schedule outage	<input type="checkbox"/>
3	High ( $\Delta > 35^{\circ}\text{C}$ )	Repair immediately	<input type="checkbox"/>

#### Analysis:

Blank area for analysis notes.

#### Corrective action:

In maximum load, this AC motor, field windings (Ar1 of thermal image) model reference temperature should not exceed 100°C.

#### Reported by :

Engr. Adrian Arigo Signature:.....

date:5-8/6/2014

Repaired by: .....

date:

Comment:.....

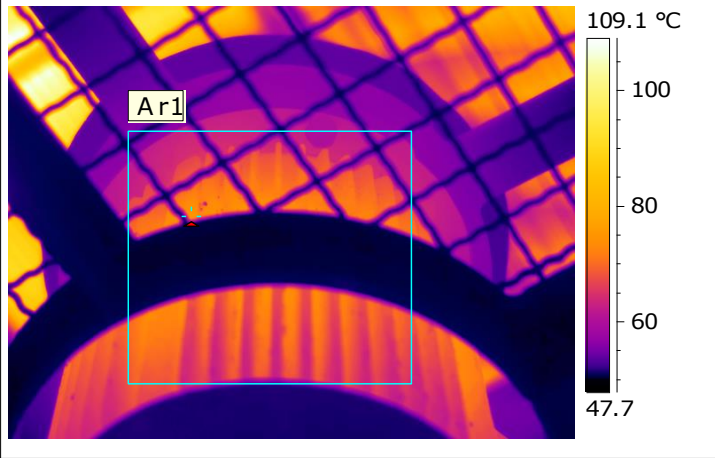


WESAM SYSTEMS

# Thermography Inspection for Electrical Equipment at \*\*\*\*\*

Date:  
5-8/6/2014

### Infrared Thermogram 6/9/2014



Location	GT No.7 Auxiliaries
Equipment	Disc cavity motor 2

Image File Name	FLIR_0060.jpg
Image Date	6/9/2014
Image Time	10:09:46

Atmospheric Temperature	20.0 °C
Relative Humidity	50%
Emissivity	0.90
Object Distance	1.0 m

Ar1 Max. Temperature	74.9 °C
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### Photo and Identification



Severity Rating & Recommendation			
1	Low ( $\Delta = 5-10^{\circ}\text{C}$ )	To be monitored	<input type="checkbox"/>
2	Medium ( $\Delta = 10-35^{\circ}\text{C}$ )	Repair at schedule outage	<input type="checkbox"/>
3	High ( $\Delta > 35^{\circ}\text{C}$ )	Repair immediately	<input type="checkbox"/>

**Analysis:**

### Corrective action:

In maximum load, this AC motor, field windings (Ar1 of thermal image) model reference temperature should not exceed 100°C.

**Reported by :**

Engr. Adrian Arigo Signature:.....

date:5-8/6/2014

Repaired by: .....

date:

Comment:.....



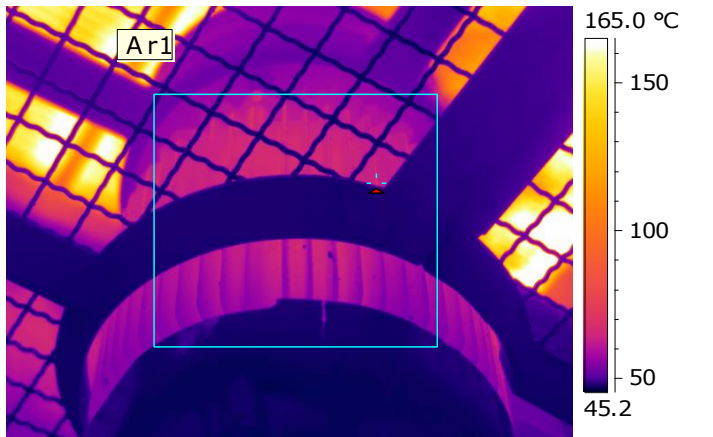


WESAM SYSTEMS

# Thermography Inspection for Electrical Equipment at \*\*\*\*\*

Date:  
5-8/6/2014

## Infrared Thermogram 6/9/2014



Location	GT No.10 Auxiliaries
Equipment	Disc cavity motor 1

Image File Name	FLIR_0061.jpg
Image Date	6/9/2014
Image Time	10:39:41

Atmospheric Temperature	20.0 °C
Relative Humidity	50%
Emissivity	0.90
Object Distance	1.0 m

Ar1 Max. Temperature	71.8 °C
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## Photo and Identification



Severity Rating & Recommendation			
1	Low ( $\Delta = 5-10^{\circ}\text{C}$ )	To be monitored	<input type="checkbox"/>
2	Medium ( $\Delta = 10-35^{\circ}\text{C}$ )	Repair at schedule outage	<input type="checkbox"/>
3	High ( $\Delta > 35^{\circ}\text{C}$ )	Repair immediately	<input type="checkbox"/>

## Analysis:

## Corrective action:

In maximum load, this AC motor, field windings (Ar1 of thermal image) model reference temperature should not exceed 100°C.

## Reported by :

Engr. Adrian Arigo Signature:.....

date:5-8/6/2014

Repaired by: .....

date:

Comment:.....

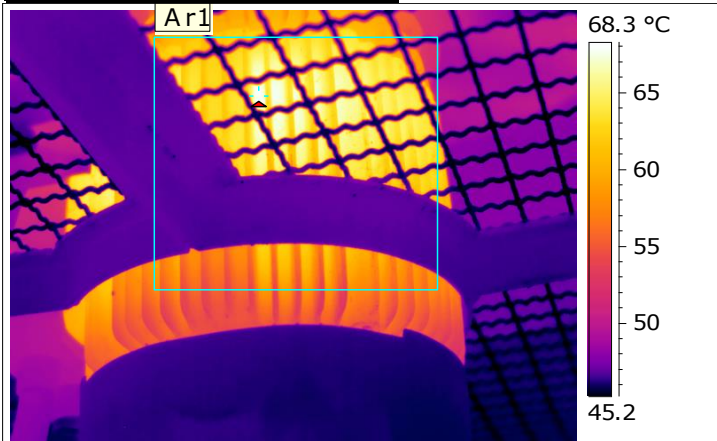


WESAM SYSTEMS

# Thermography Inspection for Electrical Equipment at \*\*\*\*\*

Date:  
5-8/6/2014

### Infrared Thermogram 6/9/2014



Location	GT No.10 Auxiliaries
Equipment	Disc cavity motor 2

Image File Name	FLIR_0062.jpg
Image Date	6/9/2014
Image Time	10:40:29

Atmospheric Temperature	20.0 °C
Relative Humidity	50%
Emissivity	0.90
Object Distance	1.0 m

Ar1 Max. Temperature	67.7 °C
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### Photo and Identification



Severity Rating & Recommendation			
1	Low ( $\Delta = 5-10^{\circ}\text{C}$ )	To be monitored	<input type="checkbox"/>
2	Medium ( $\Delta = 10-35^{\circ}\text{C}$ )	Repair at schedule outage	<input type="checkbox"/>
3	High ( $\Delta > 35^{\circ}\text{C}$ )	Repair immediately	<input type="checkbox"/>

### Analysis:

### Corrective action:

In maximum load, this AC motor, field windings (Ar1 of thermal image) model reference temperature should not exceed 100°C.

### Reported by :

Engr. Adrian Arigo Signature:.....

date:5-8/6/2014

Repaired by: .....

date:

Comment:.....

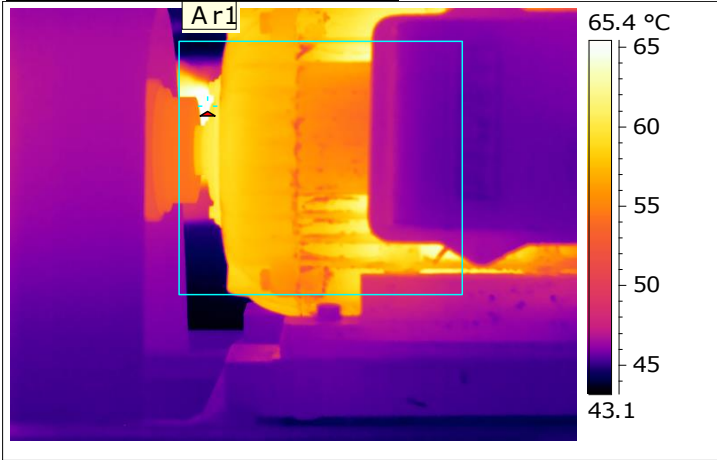


WESAM SYSTEMS

# Thermography Inspection for Electrical Equipment at \*\*\*\*\*

Date:  
5-8/6/2014

### Infrared Thermogram 6/9/2014



Location	GT No.10 Auxiliaries
Equipment	Lube oil cooling motor 1

Image File Name	FLIR_0063.jpg
Image Date	6/9/2014
Image Time	10:42:15

Atmospheric Temperature	20.0 °C
Relative Humidity	50%
Emissivity	0.90
Object Distance	1.0 m

Ar1 Max. Temperature	69.8°C
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### Photo and Identification



Severity Rating & Recommendation			
1	Low ( $\Delta = 5-10^{\circ}\text{C}$ )	To be monitored	<input type="checkbox"/>
2	Medium ( $\Delta = 10-35^{\circ}\text{C}$ )	Repair at schedule outage	<input type="checkbox"/>
3	High ( $\Delta > 35^{\circ}\text{C}$ )	Repair immediately	<input type="checkbox"/>

### Analysis:

### Corrective action:

In maximum load, this bearing, plain types material of the motor (Ar1 of thermal image) model reference temperature should not exceed 121°C.

### Reported by :

Engr. Adrian Arigo Signature:.....

date:5-8/6/2014

Repaired by: .....

date:

Comment:.....

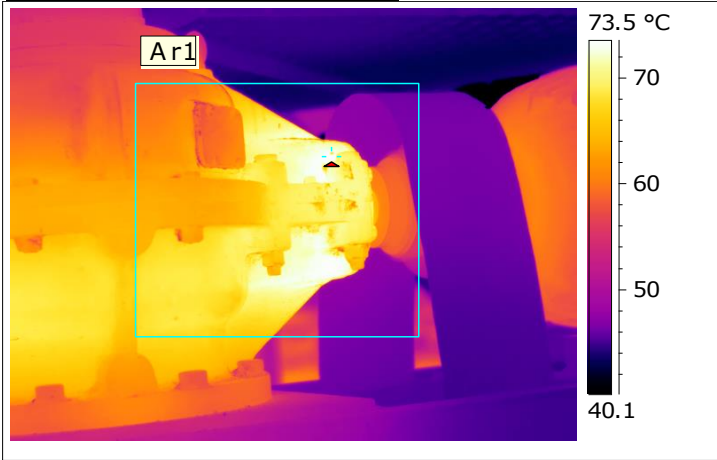


WESAM SYSTEMS

# Thermography Inspection for Electrical Equipment at \*\*\*\*\*

Date:  
5-8/6/2014

## Infrared Thermogram 6/9/2014



Location	GT No.10 Auxiliaries
Equipment	Gearbox 1

Image File Name	FLIR_0071.jpg
Image Date	6/9/2014
Image Time	10:46:18

Atmospheric Temperature	20.0 °C
Relative Humidity	50%
Emissivity	0.90
Object Distance	1.0 m

Ar1 Max. Temperature	73.5°C
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## Photo and Identification



Severity Rating & Recommendation			
1	Low ( $\Delta = 5-10^{\circ}\text{C}$ )	To be monitored	<input type="checkbox"/>
2	Medium ( $\Delta = 10-35^{\circ}\text{C}$ )	Repair at schedule outage	<input type="checkbox"/>
3	High ( $\Delta > 35^{\circ}\text{C}$ )	Repair immediately	<input type="checkbox"/>

**Analysis:**

## Corrective action:

In maximum load, this bearing, plain types material of the gearbox (Ar1 of thermal image) model reference temperature should not exceed 121°C.

**Reported by :**

Engr. Adrian Arigo Signature:.....

date:5-8/6/2014

Repaired by: .....

date:

Comment:.....