

Thermographic Test - April 2018



AeroChill[®]

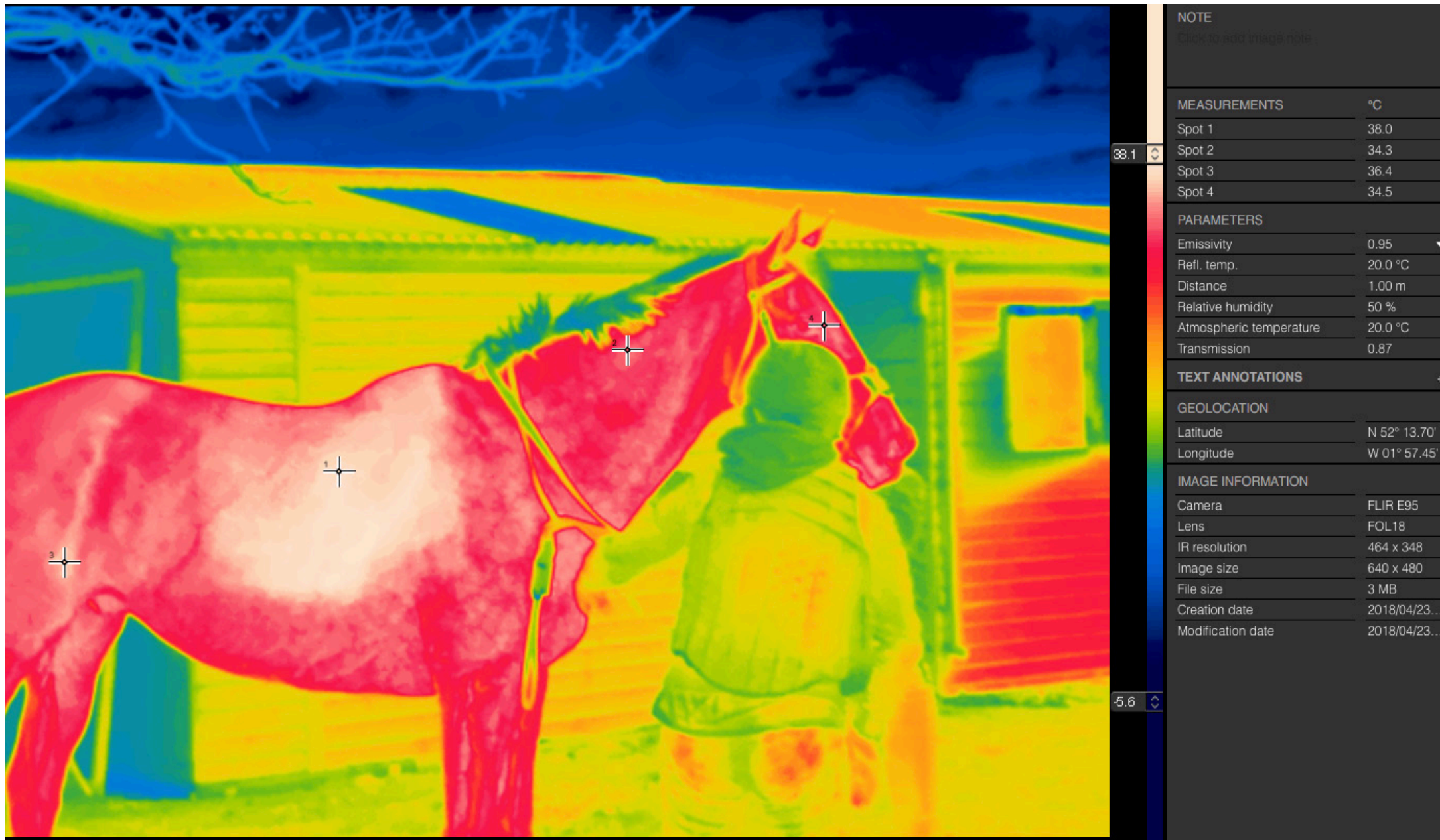
The test was based on the AeroChill Cooling Boot and AeroChill Cooling Rug. The results have concluded that both cooling solutions left a cooling thermal skin temperature when removed.

AeroChill Cooling Boots provided 5/8 °C reduction in thermal skin temperature over 10 minutes
AeroChill Cooling Rug provided 12/14 °C reduction in thermal skin temperature over 10 minutes



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Immediately After exercise without AeroChill rug



AeroChill® Spots show temperatures between 38 °C and 34.3c after exercise.

After exercise without AeroChill rug - 4 minutes after finishing



NOTE
Horse after exercise with no AeroChill products

MEASUREMENTS		°C
Spot 1		34.4
Spot 2		30.2
Spot 3		28.6

PARAMETERS	
Emissivity	0.95
Refl. temp.	20.0 °C
Distance	1.00 m
Relative humidity	50 %
Atmospheric temperature	20.0 °C
Transmission	0.87

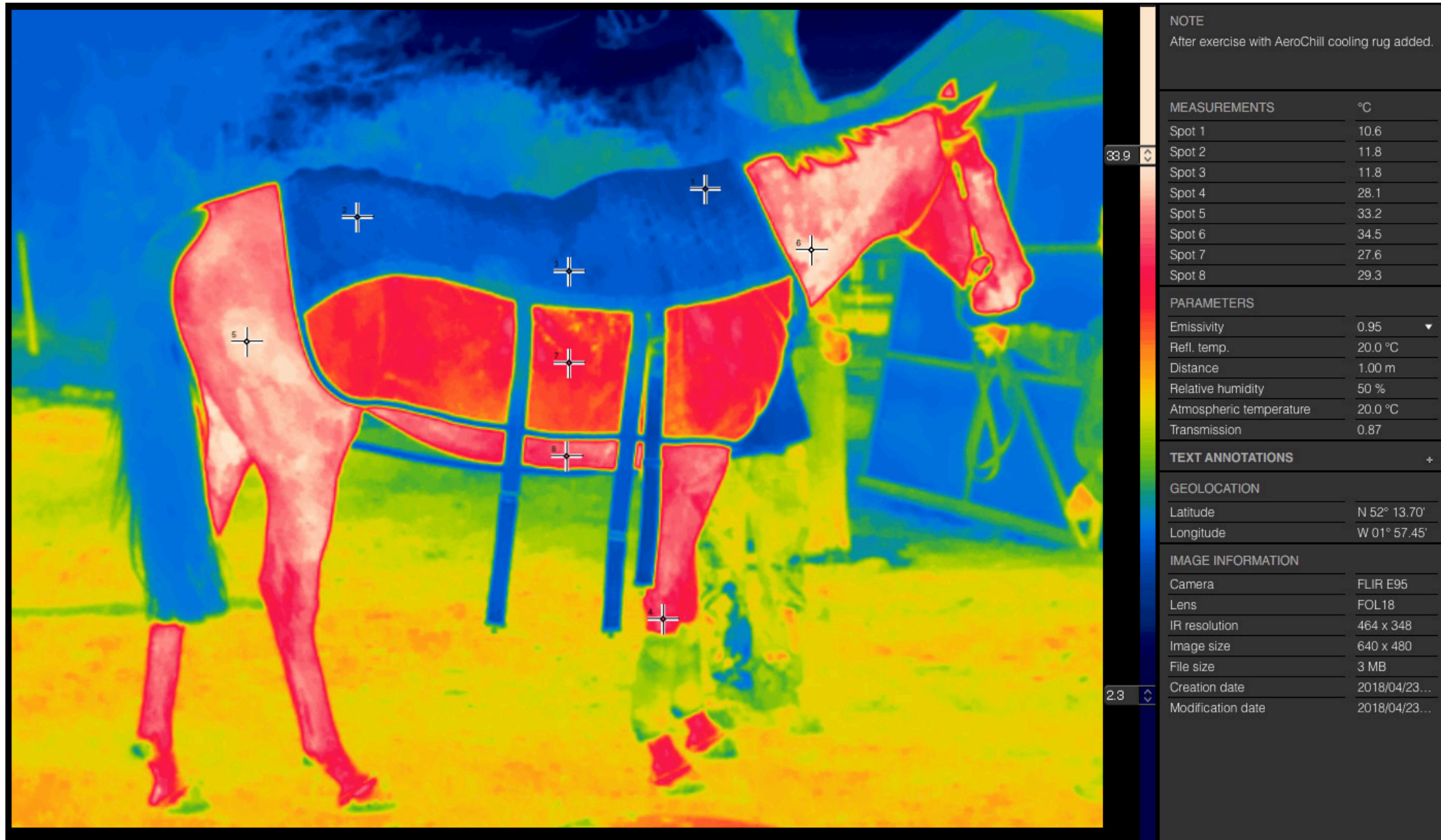
TEXT ANNOTATIONS +

GEOLOCATION	
Latitude	N 52° 13.70'
Longitude	W 01° 57.45'

IMAGE INFORMATION	
Camera	FLIR E95
Lens	FOL18
IR resolution	464 x 348
Image size	640 x 480
File size	3 MB
Creation date	2018/04/23...
Modification date	2018/04/23...

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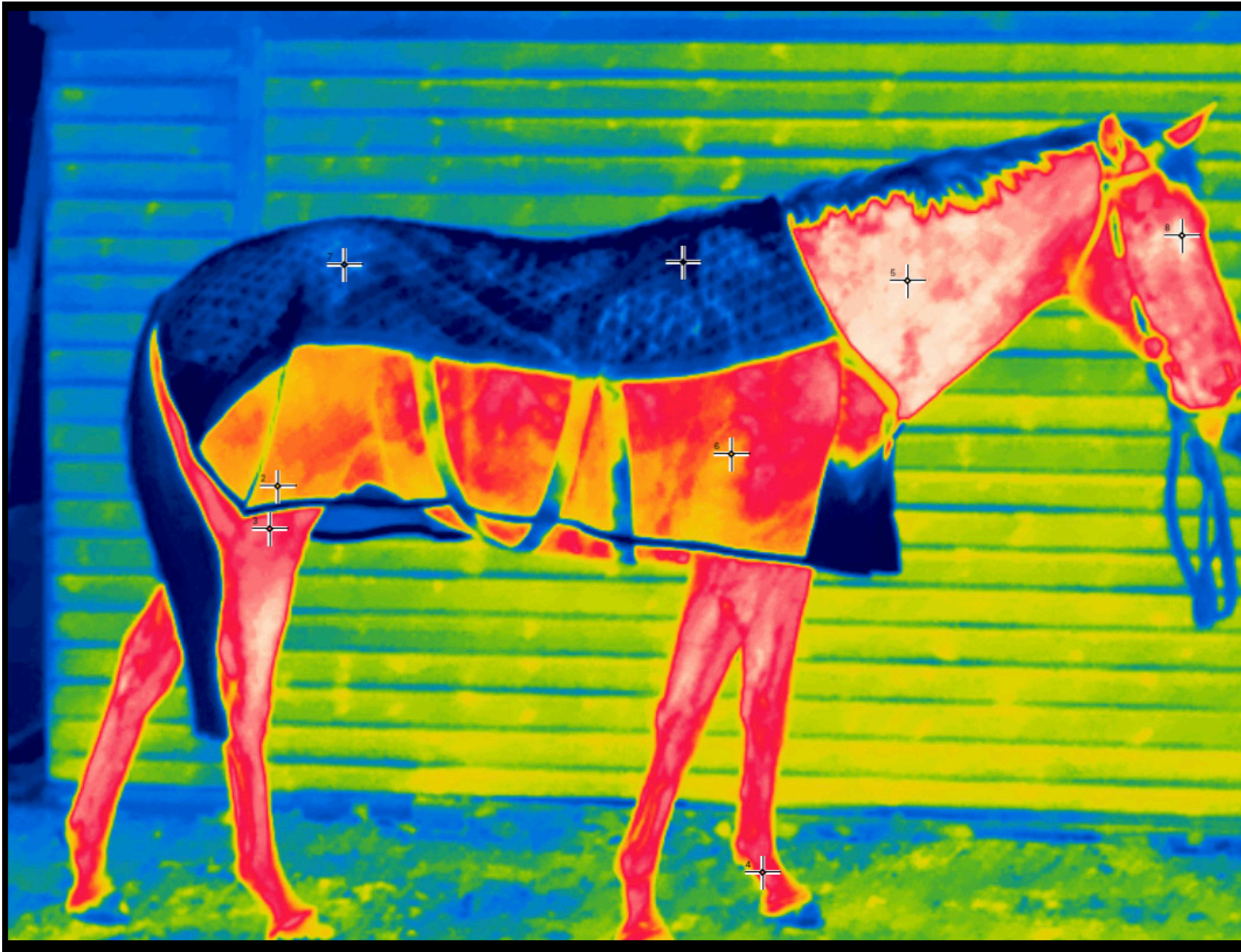
After exercise with AeroChill Rug on



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AeroChill Rug is ready at 10.6 °C - Spot 6 rear leg is reading at 34.5 °C. Spot 4 is ready 28.1 °C on the leg.

After exercise with AeroChill Rug on 5mins



NOTE

Click to add image note

MEASUREMENTS

	°C
Spot 1	12.8
Spot 2	24.7
Spot 3	30.6
Spot 4	31.0
Spot 5	34.3
Spot 6	26.3
Spot 7	17.6
Spot 8	32.6

PARAMETERS

Emissivity	0.95
Refl. temp.	20.0 °C
Distance	1.00 m
Relative humidity	50 %
Atmospheric temperature	20.0 °C
Transmission	0.87

TEXT ANNOTATIONS

GEOLOCATION

Latitude	N 52° 13.70'
Longitude	W 01° 57.44'

IMAGE INFORMATION

Camera	FLIR E95
Lens	FOL18
IR resolution	464 x 348
Image size	640 x 480
File size	3 MB
Creation date	2018/04/23...
Modification date	2018/04/23...

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After exercise with AeroChill Rug and boots on 8 mins



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AeroChill Rug is reading at 12.8°C and skin next to it reading at 34.3°C (Leg)



NOTE
AeroChill boots on horse after exercise

MEASUREMENTS		°C
Spot 1		11.8
Spot 2		28.6
Spot 3		12.9
Spot 4		31.5

PARAMETERS	
Emissivity	0.95 ▾
Refl. temp.	20.0 °C
Distance	1.00 m
Relative humidity	50 %
Atmospheric temperature	20.0 °C
Transmission	0.87

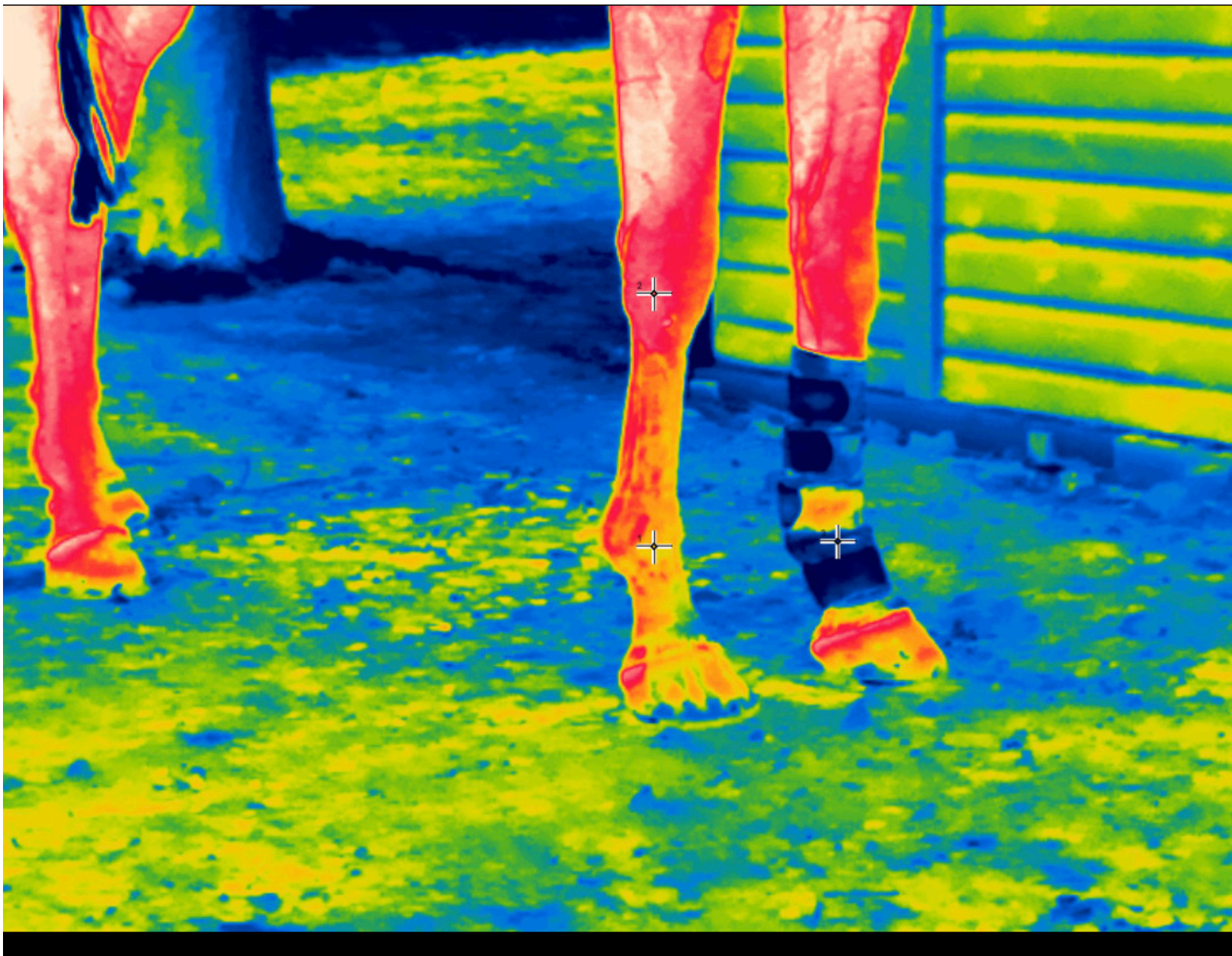
TEXT ANNOTATIONS +

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AeroChill Boots temperature 11.8 °C and 12.9 °C - The temperature of the tissue without cooling is 31.5 °C and 28.5 °C



NOTE
With AeroChill boot and one after taking one off after 10 mins

MEASUREMENTS	°C
Spot 1	21.5
Spot 2	30.3
Spot 3	17.3

PARAMETERS	
Emissivity	0.95
Refl. temp.	20.0 °C
Distance	1.00 m
Relative humidity	50 %
Atmospheric temperature	20.0 °C
Transmission	0.87

TEXT ANNOTATIONS +

GEOLOCATION	
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Longitude	W 01° 57.44'

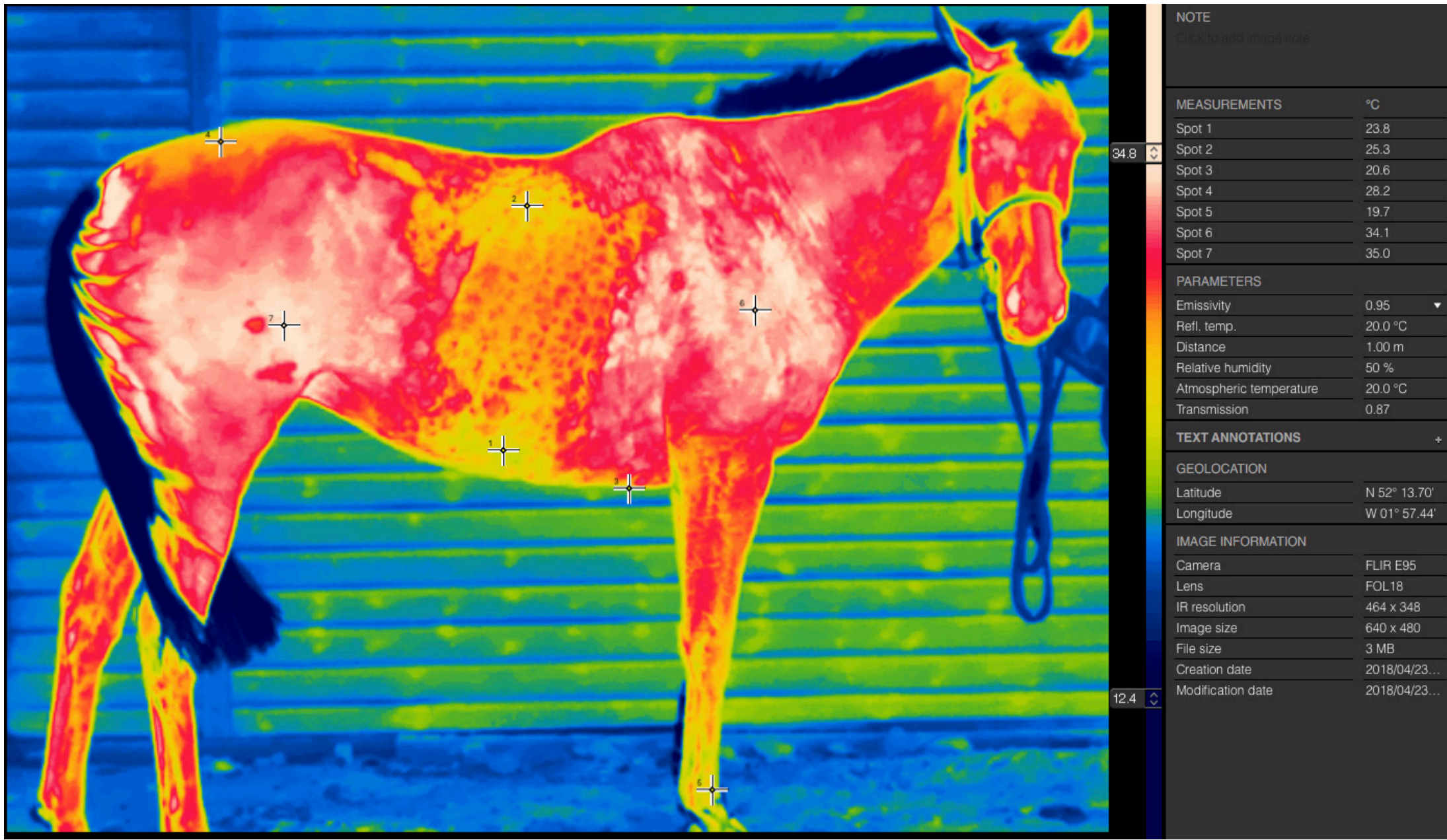
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The above thermographic shows spot 1 after wearing the cooling boot for 10 minutes 21.5°C. Spot 2 shows the area of the leg that did not have AeroChill cooling boots - this is reading at 30.3°C.

There is a 5.8°C reduction in thermal tissue difference between areas of the leg being cooled and those that are not. (note spot 3 the existing cooling boot is reading at 17.3°C)

After wearing AeroChill Cooling boots and rug

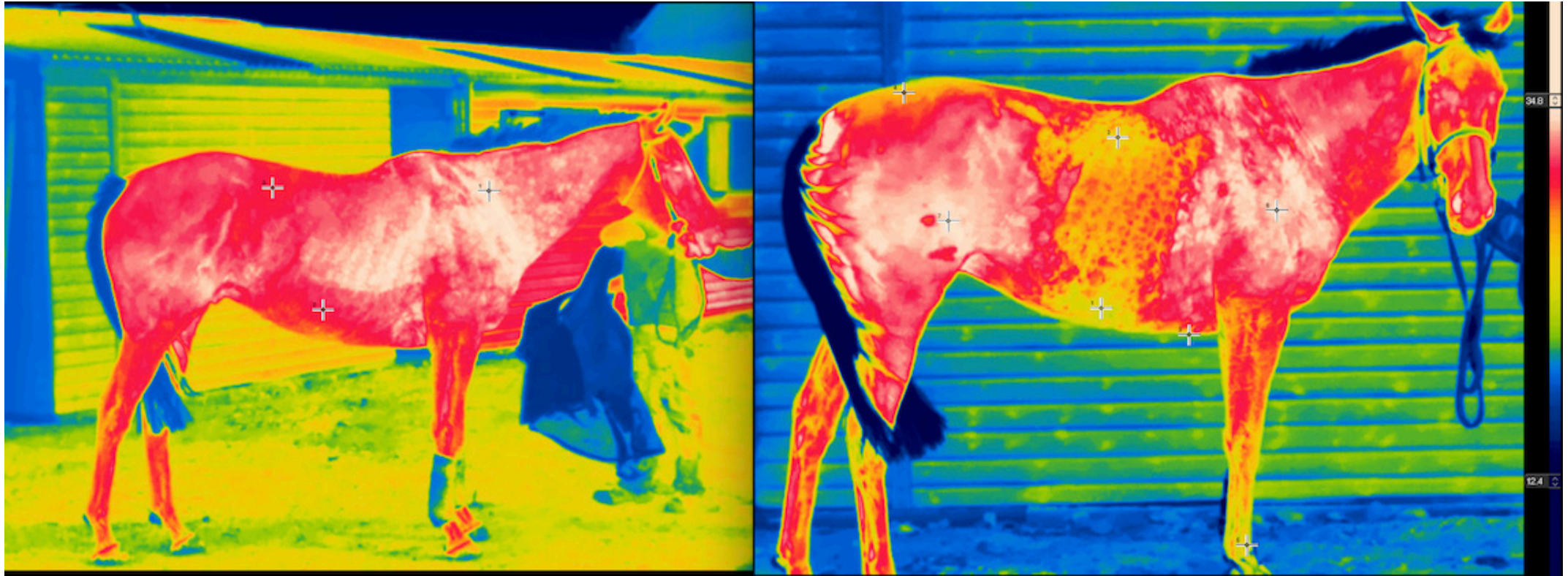


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Yellow and green areas show clearly that areas that have been cooled buy the products. Lowest temperature recorded 19.7 °C after AeroChill and 35 °C in an area without AeroChill.

Immediately after training

After wearing AeroChill Rug & Boots



After exercising the temperature recorded on the horse was 38°C. In the same position on the horse after 10 minutes of using AeroChill the temperature was 25.3°C. This provided a 12.7°C thermal reduction in temperature for the horse after 10 minutes.

We believe that if the rug was in place for 30 to 40 minutes we could see that reducing at 15°C across larger areas of the horses body.

Test conducted by TechNiche UK - JJCR

