



Saddle Fit Thermal Imaging Report

Jo



*Thermal Imaging completed by
a Certified Thermographer
Authorized with the EquineIR™
Network.*



*Interpretative results
completed by Licensed
Veterinarians in contract with
Integrated Equine Infrared.*



SoCal Infrared Thermal Imaging Services

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PATIENT: Jo **THERMOGRAPHY DATE:** May 22nd 2014 **TIME:** 10:30am

May 29, 2014

Virginia Mulvaney
Native Wind
92054

Dear Virginia Mulvaney:

EquineIR was recently requested to perform a thermal imaging Saddle-Fit scan of: **Jo**

The following photo report was completed by your EquineIR™ Certified Thermographer and all interpretative results were channeled through interpretir.com and subsequently formulated and input by a licensed veterinary team member with Integrated Equine Infrared.

The interpretation is intended to aid your state-licensed veterinarian in providing a diagnostic or treatment protocol. All follow-up testing and treatments should be conducted and administered by your primary veterinarian. The interpretation provided is based solely on the conditions at the time of survey and the thermal images included in this report. Thermography is a diagnostic tool that measures heat emitted from the surface of the patient. The thermal imaging camera converts infrared energy into a visible image. Emitted heat is related to circulation; as such, the thermal camera can help detect areas of inflammation as well as decreased circulation. Thermal symmetry is key, so we compare one anatomic area with the same area on the other side. The EquineIR™ report is prepared in this manner. It should be understood that correct patient preparation and environment are vital to a successful survey. Your EquineIR™ technician is also a Certified Infrared Thermographer and has been trained in the proper use and the proven techniques of thermal imaging as it is used with horses. However there are certain situations which may reduce the quality of the survey including the improper preparation of the horse prior to technician's arrival. The interpreting veterinarians who review the imagery base their findings and recommendations on information provided, so it is critical that proper care be taken in the preparation process to ensure success.

Thermal imaging is a physiologic modality and should not be relied upon as the sole diagnostic tool. A complete clinical examination by your licensed veterinarian is always recommended for the best diagnosis and follow-up treatment. This Report is not a definitive diagnosis of any illness or disease. It is intended for use only by licensed veterinary professionals to evaluate patient health, diagnose medical conditions, and provide treatment. It is not to be used by individuals for self-diagnosis or self-evaluation, nor for the diagnosis or evaluation of other non-qualified personnel. This report does not replace, nor is intended to replace a complete clinical evaluation by your licensed veterinarian. Under no circumstances will EquineIR™, Integrated Equine Infrared or its affiliates be held responsible for illness, injury, or death to the patient as a result of the information contained herein. This report does not replace, nor is intended to replace a complete clinical evaluation.

Your EquineIR™ Technician looks forward to working with you in the future. If you would like to set up an ongoing maintenance imaging program for your horse(s), we can arrange this at discounted rates along with multiple horse discounts. Please call our office with any questions as we would love to assist you in your success.

Sincerely,

Dianne Jenkins
Thermographer Technician

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EQUINE CLIENT INFORMATION

CLIENT NAME: Virginia Mulvaney
MAILING ADDRESS: Native Wind, 92054
CLIENT EMAIL: vmulvaney@cox.net
CLIENT PHONE: 760-803-1370

HORSE AGE: 11
HORSE BREED: TB
HORSE PRIMARY USE: Hunter/Jumper

SURVEY INFORMATION

INFRARED CAMERA MODEL: Flir t420 **NUMBER OF THERMAL IMAGES SUBMITTED:** 8

WEATHER: Light Wind **APPROXIMATE TEMPERATURE:** 70 °F **IMAGING LOCATION:** Covered area

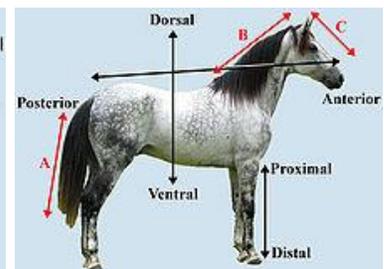
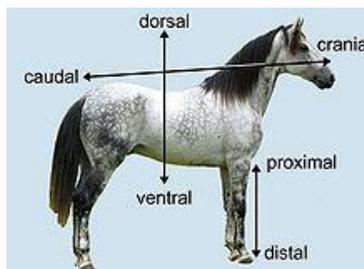
EXERCISED: Client rode **HOW LONG:** 8-10 minutes **WHEN:** After pre-imaging
FLYSPRAY OR LINIMENTS APPLIED WITHIN 24 HOURS: No
REASON FOR SCAN or HISTORY RECEIVED: Base Line

TYPE OF SADDLE: English **BRAND:** Bates
SERIAL NUMBER: N/A **COLOR:** Brown **SIZE:** 17 1/2" **FLOCKING:** Cair **TYPE OF SADDLE PAD:** Sheepskin half pad

SADDLE-FIT INFORMATION: Thermography identifies areas of increased or decreased circulation or perfusion. As such, pressure points or hollow areas from ill-fitting saddles, pressure from uneven riders, and wither or back problems in horses, may be positively identified. However, thermal imaging is not a replacement for a complete veterinary physical examination, or a saddle-fitting evaluation from a Certified Master Saddler.

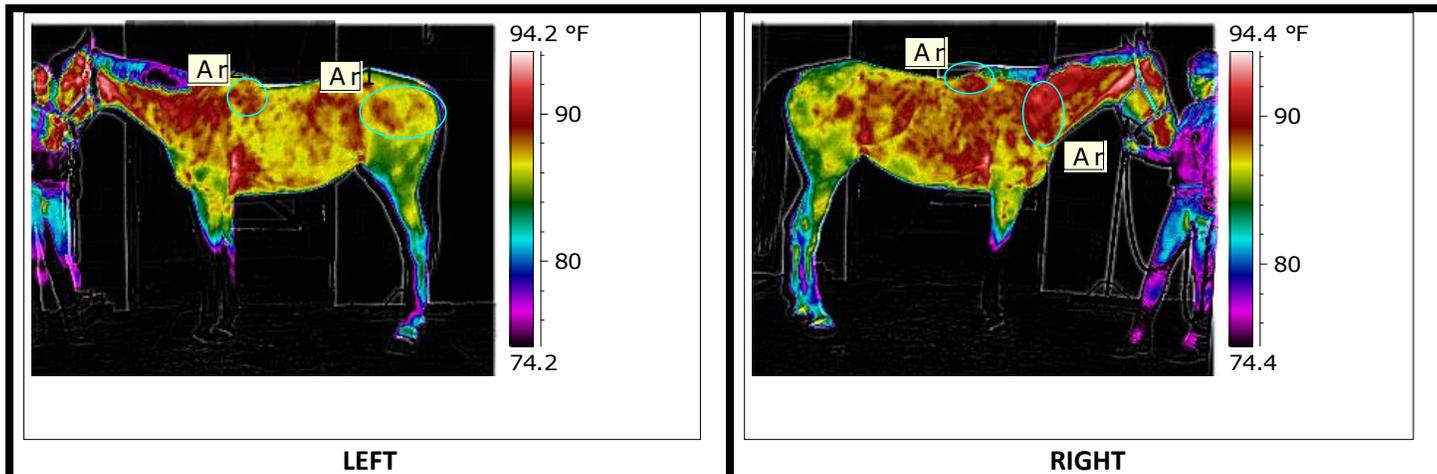
INTERPRETATION INFORMATION (Completed by Veterinarian)

INTERPRETATION TYPE: Saddle Fit Evaluation
DATE OF INTERPRETATION: 5/26/2014
REVIEWING VETERINARIAN: Dr. Debra K Tibbitts

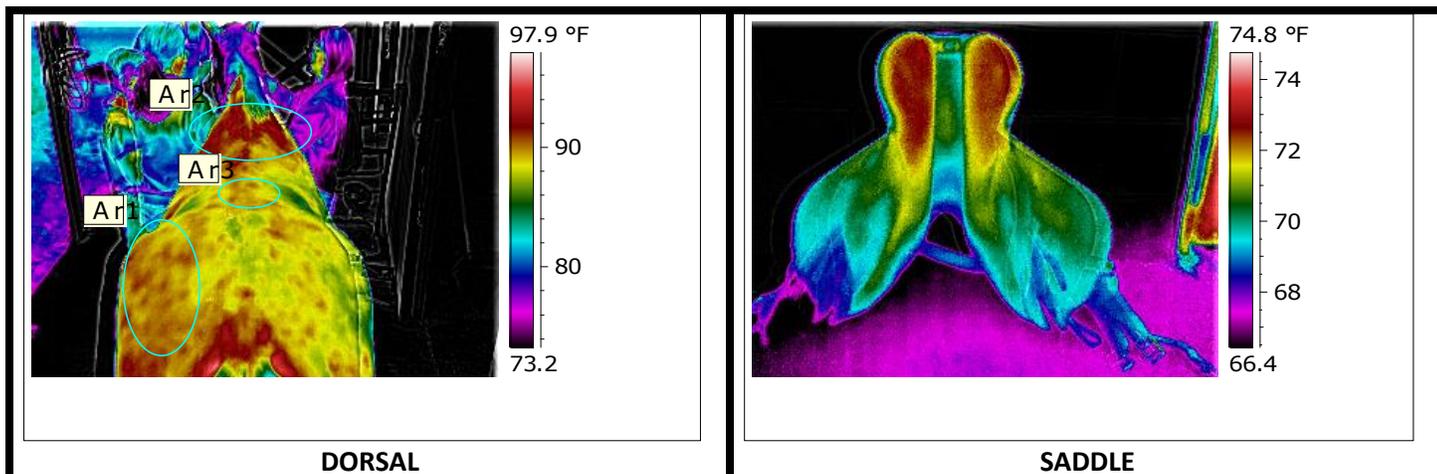


PATIENT: Jo THERMOGRAPHY DATE: May 22nd 2014 TIME: 10:30am

BEFORE EXERCISE



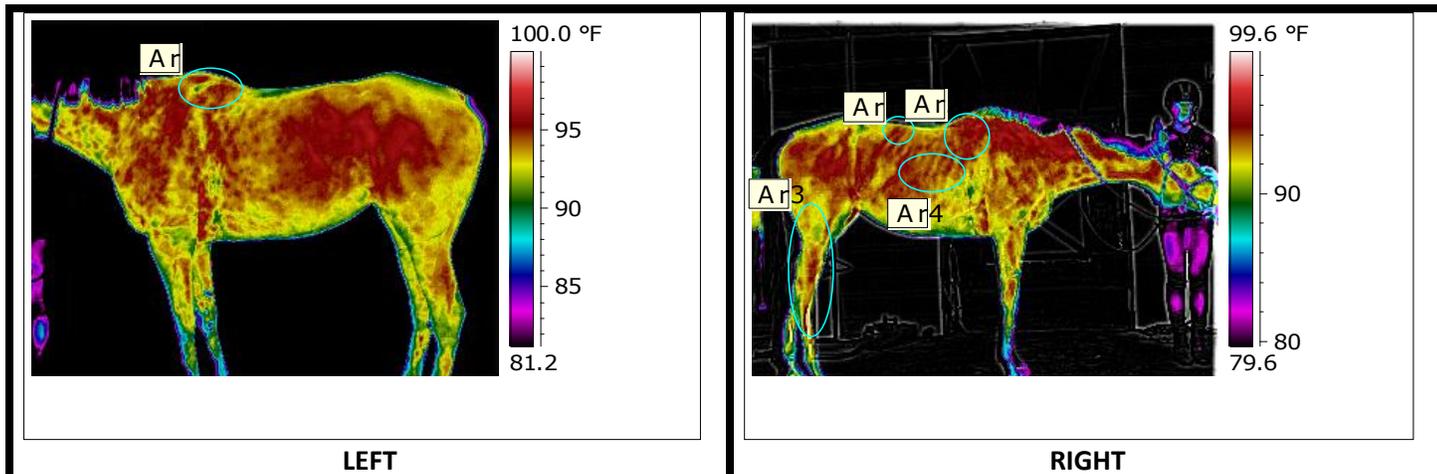
Some asymmetry seen in the lateral views. Both wither pockets have increased heat, but it is greater on the right. Saddle fit and/or chiropractic issues likely the cause. There is some asymmetry in the neck, though visualization is limited by mane hair. The right lower cervical area has greater heat than the left side. Chiropractic issues or muscular strain may be the cause. Thorough palpation and chiropractic evaluation recommended.



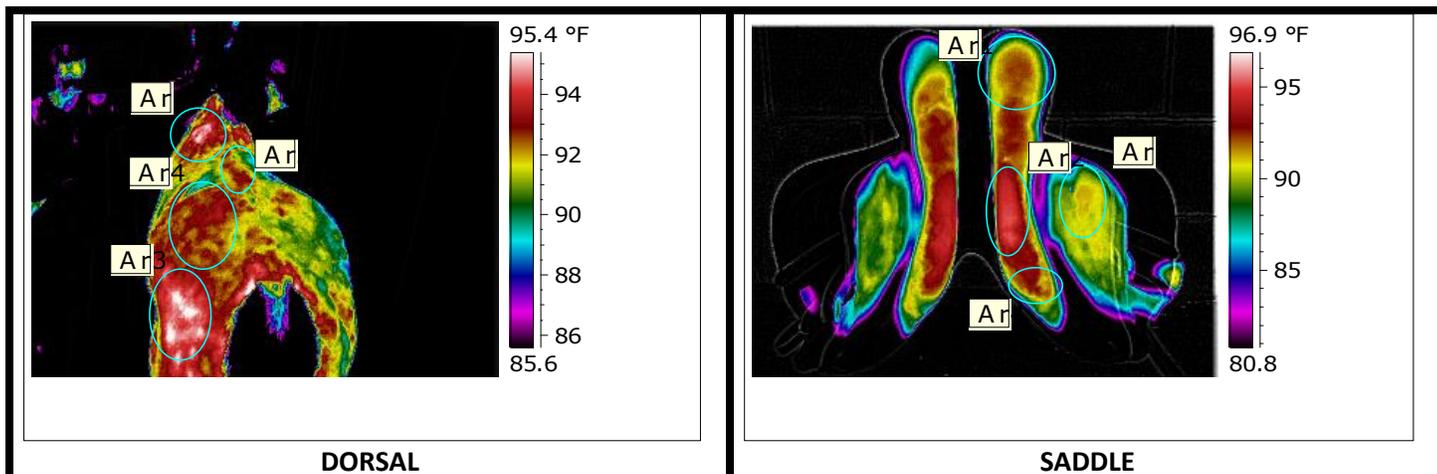
Increased heat seen at the withers, greater on the left and the mid-thoracic spine. Patchy pattern of heat along thoracolumbar spine may indicate saddle fit issues and/or chiropractic rotations. There is asymmetry over the gluteal muscles, with heat greater on the left which can indicate off-loading of other limb or primary inflammation of the gluteal area. Gait/posture evaluation and palpation recommended along with full scan for a better evaluation. Saddle looks generally okay, but channel seems to narrow as it gets to the back of the saddle.

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AFTER EXERCISE



Increased heat at the withers and shoulder pocket, greater on the right side. There is uneven flap patterning on the right side and some increased heat on the right where the back of the saddle sits. The right hind limb also has increased heat from the stifle to below the hock. Would recommend palpation and general flexion testing ruling out hock and stifle issues. A full scan would also yield more information about potential issues in the limbs.



There is asymmetry over the gluteal muscles with heat greater on the left, as seen in the pre-exercise images. There also appears to be some light artifact on the left thigh and withers. There is increased heat in the lower thoracic and lumbar spine which may be due to saddle being too narrow in that area and/or the presence of chiropractic rotations. The saddle shows an uneven pattern matching the increased heat on the right side withers, side and loin. The saddle is shifting right to left possibly due to uneven muscular development.

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SUMMARY AND RECOMMENDATIONS: Jo is a nice looking mare but there are some issues to consider based on the thermal images submitted.

The pre-exercise images have increased heat at the withers and shoulder pockets, greater on the right side. There is also increased heat along the lower thoracic and lumbar spine. These may represent saddle fit and/or chiropractic rotations. There is also some asymmetry over the gluteal muscles, with heat greater on the left which may represent primary muscular inflammation or off-loading. Postural and gait analysis along with palpation recommended. A thorough veterinary chiropractic evaluation and treatment would be helpful for this mare.

Post-exercise views again show the same patterning as above but to a greater degree. Generally there is greater heat and pressure on the right side from withers to loin. This uneven patterning is reflected in the heat pattern on the saddle as well. There is uneven contact throughout the panels, with heat greater on the right suggesting the saddle is falling right to left. The right flap also shows greater contact than the left due to saddle shift also.

The panels also have increased contact at the withers and focal areas of pressure in the rear half of the panels. This may be due to the narrowing of the channel and shape of the panels not allowing full contact.

The uneven patterning over the gluteal muscles and heat patterning down the right hind limb warrant further investigation through a full body scan and/or thorough veterinary chiropractic evaluation.

As this mare is just being brought back into work her body may well change with training and it would be good to have a saddle that can change with her. Since the CAIR panels are not adjustable it is suggested to go to a saddle with flocking that can be changed as the mare changes. A good saddle fitter is a must, one that doesn't sell any particular brand. Some brands to consider are Albion, Custom Saddlery and maybe County saddles.

Thank You!

Reviewing Veterinarian: Debra K Tibbitts, DVM ,CVCP, EDO, CVA, CIT