

TESTING TODAY, PROTECTING TOMORROW

10100547-002-v1

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Verbal VB

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LABORATORY REPORT

**Report No.:** 

P.O. No.:

Date Received:

Date Reported:

Attn: Vitali Bondar KAT Implants, LLC 15 Rye St. Suite 115 Portsmouth, NH 13801 Sample Description: Implant with an abutment attached

## Background

A dental implant identified as Implant 4.3 x 12, #0014312, Lot A-1984 and an abutment identified as Prepable Abutment 4.6 x 6.5, #002062, Lot #00054 were submitted for examination. The abutment was inserted into the implant and tightened using a 20 Ncm non-adjustable torque wrench supplied by the client. The implant with the attached abutment was then mounted and polished per standard metallographic procedures. See Figure 1.

## Results

The implant was then examined with a Scanning Electron Microscope (SEM) equipped with an X-ray Energy Dispersive Spectrographic Microprobe (EDS) at magnifications up to 4000X. The SEM photomicrographs taken to document the implant/abutment interface are shown in Figures 2 and 3.

## Conclusion

The dental implant and abutment were in intimate contact (no gap was detected) in continuous areas along the interface length.

Note: The material will be discarded after sixty (60) days from the date of this report unless otherwise directed.

Approved By: W. Don Bunn, PE

W. Don Bunn, PE Project Engineer

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Figure 1, Cross section of the implant with the abutment inserted at 10X magnification



Figure 2, Implant / abutment interface as viewed with a SEM at 40X magnification

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Figure 3, A section of the Implant / abutment interface as viewed with a SEM at 4000X magnification. The dark areas are discolorations from the polishing process.

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