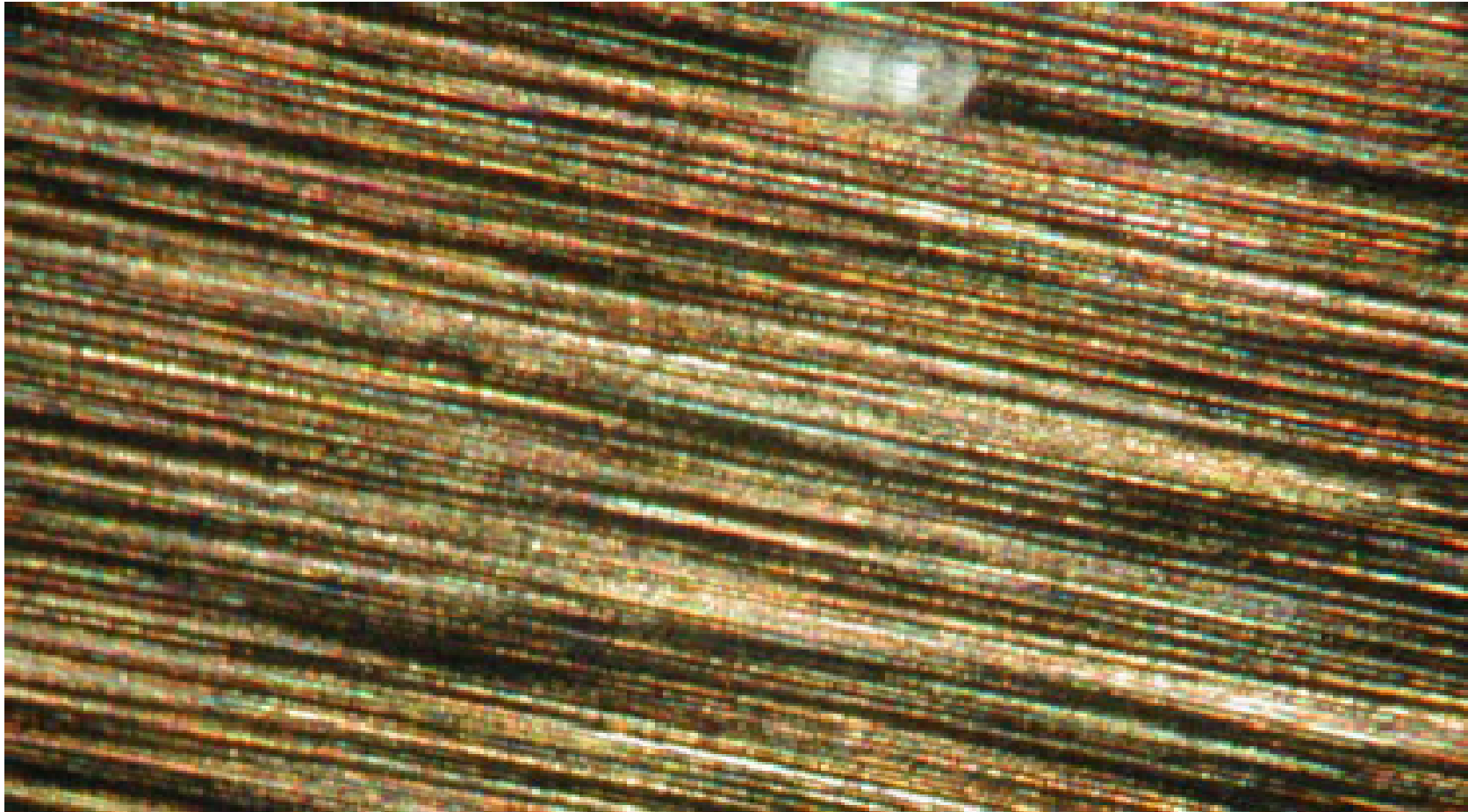
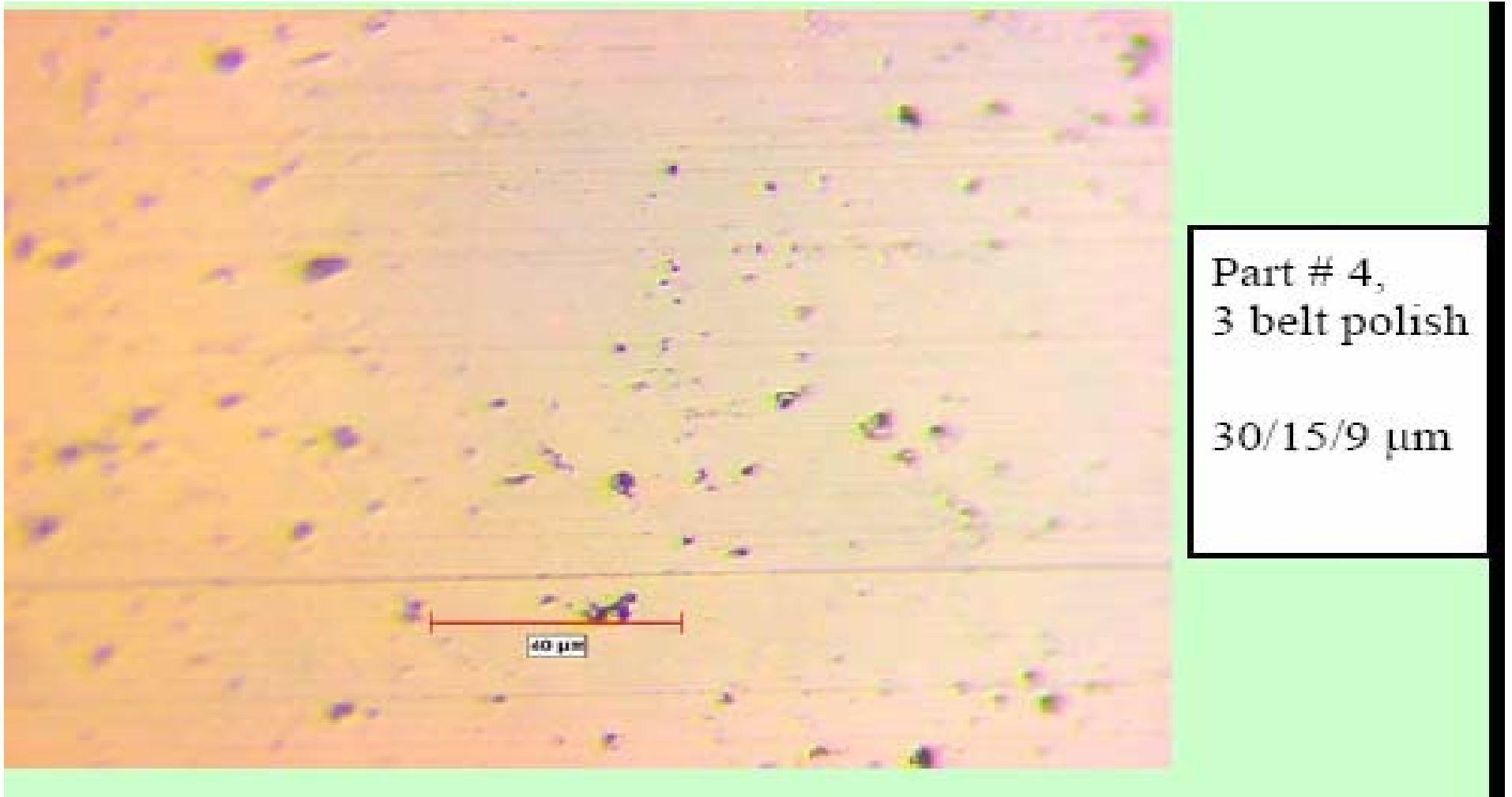


# Superfinishing HVOF

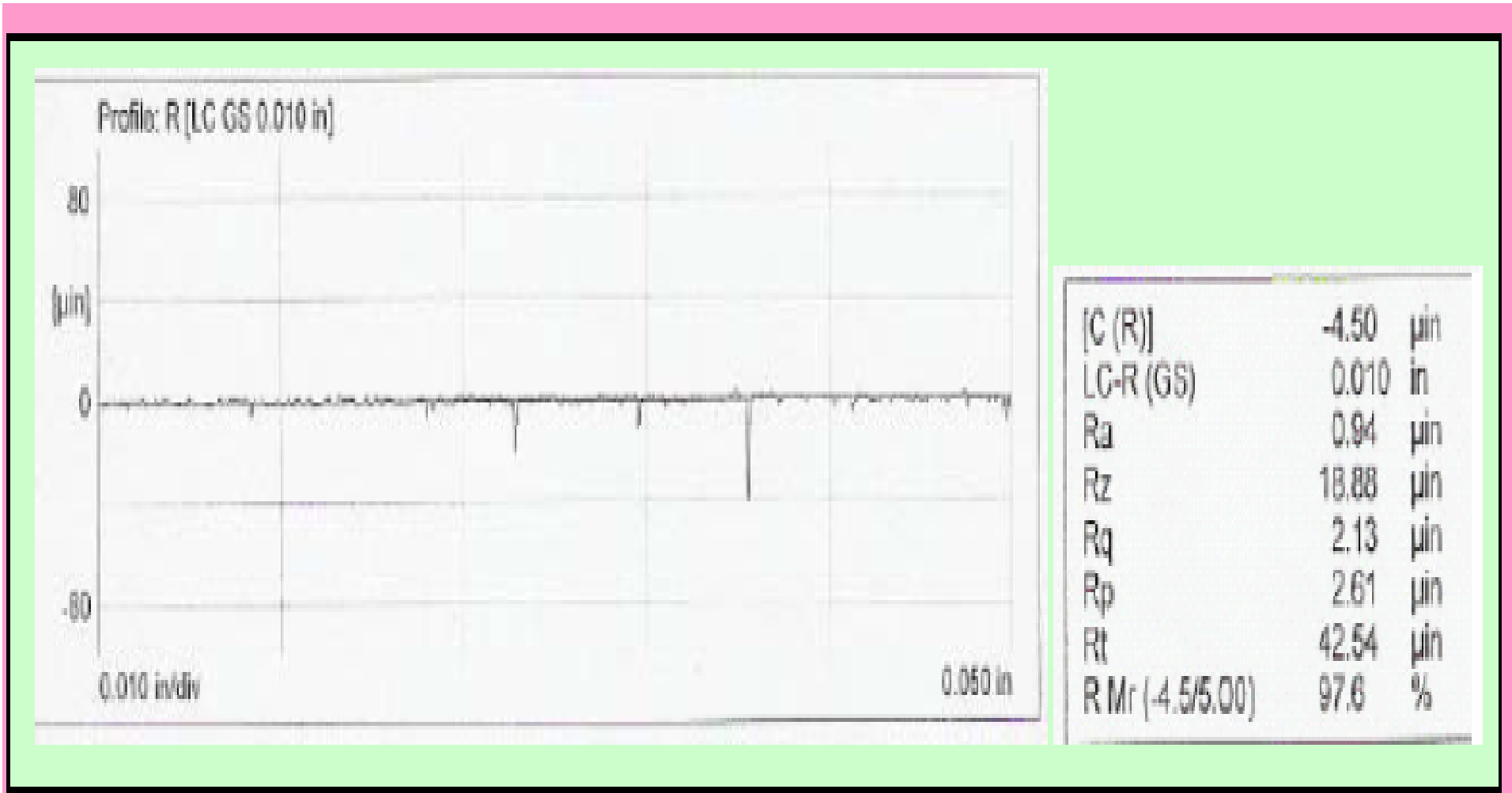
## Image of Surface that Leaked ~ 30X



## Image of a Surface that did not leak.~ 100X



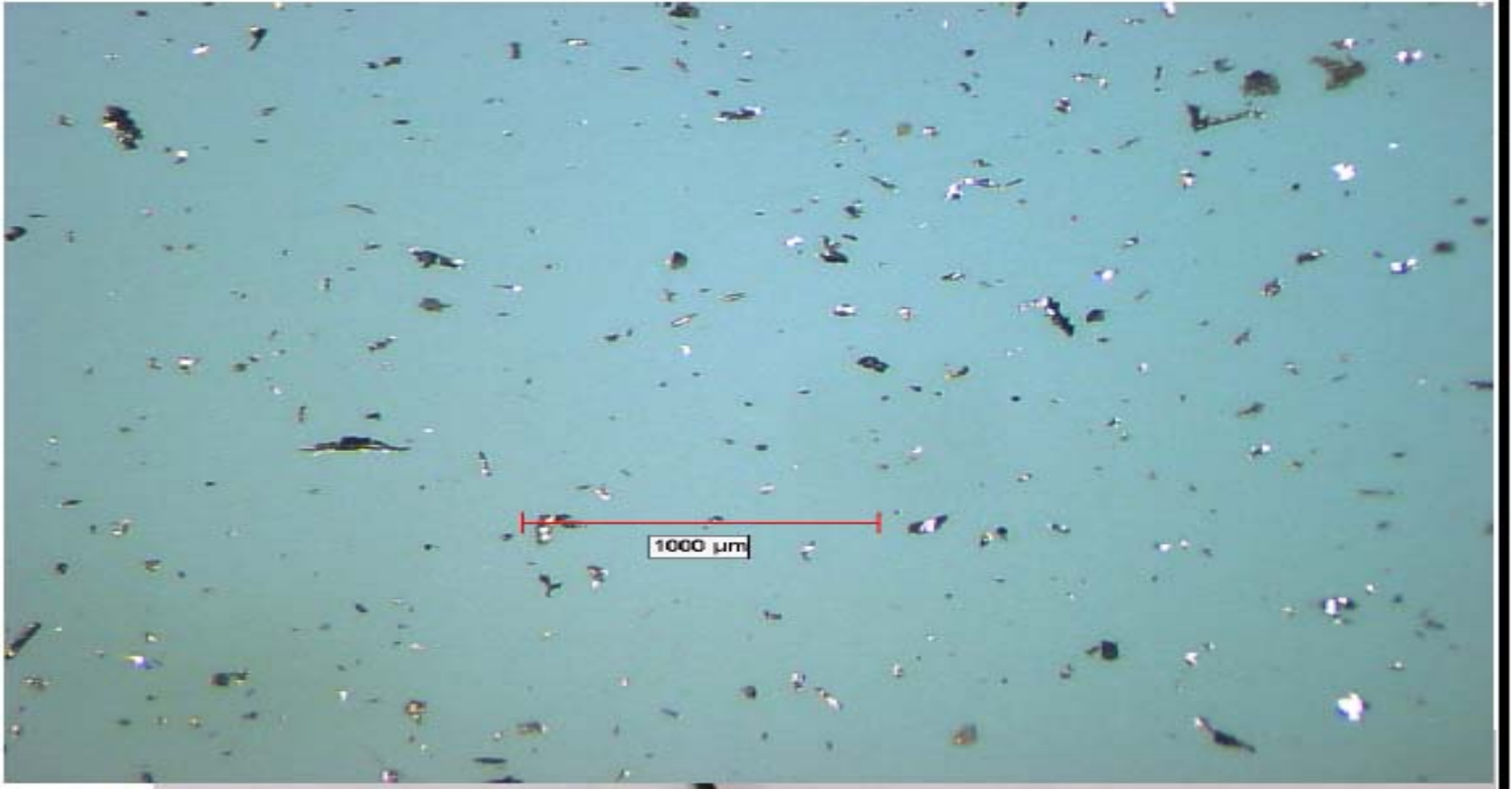
# Both Surfaces have this type of finish conforming to recommended surface by seal manufacturers.



# Leaking Surface's Hydraulic Fluid.



# Contains Bushing Material.



## Extruded Seal Material.



# ■ ■ ■ ■ ■ Issues

- ▶ **Profilometry requirements can be met but performance standards may not.**
- ▶ **No industry standardization (i.e. tribal or performance defined) exists in superfinishing to MD's knowledge.**

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## ■ ■ ■ ■ ■ Corrective Action

▶ **Update AMS 2449 to cover superfinishing:**

▶ **Items to consider:**

- Procedures
- Visual standards
- Profilometry standards.

## ■ ■ ■ ■ SAE Committees E and AMEC

- ▶ **AMS 2449 has been put forward to be updated to include superfinish requirements.**
- ▶ **HCAT participation is encouraged and welcomed.**
- ▶ **Contacts are:**
  - [trboysen@yahoo.com](mailto:trboysen@yahoo.com) (Tim Boysen)
  - [a.patterson@lmco.com](mailto:a.patterson@lmco.com) (Al Patterson)