

# Metal Surgery Milwaukee LTD

182 W. Oklahoma Ave. Building #23

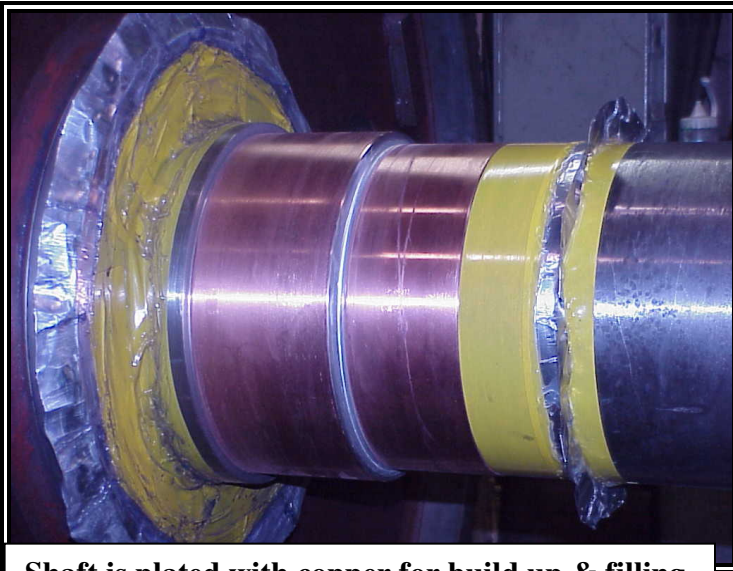
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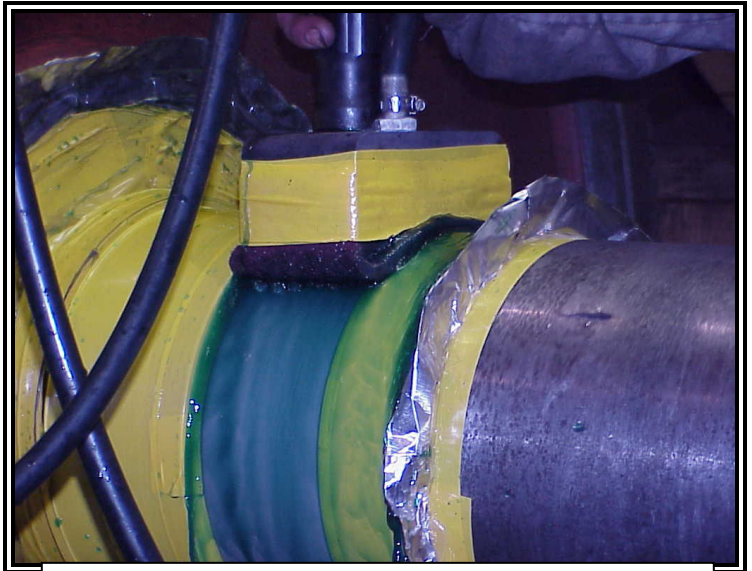
[www.metalsurgery.com](http://www.metalsurgery.com) e-mail: [metalsu@execpc.com](mailto:metalsu@execpc.com)

## NORTHERN ENGINEERING DIVISION OF FRASER SHIPYARDS INC.

**This 14-foot PTO quill shaft was damaged on bearing journals and seal diameters due to bearing/seal failure. Repair procedure consisted of re-cut centers; under cut to remove worn & total indicated run out on 4 different surfaces. Copper plate approx. .01 per side, machine, nickel-plate & grind to Mfg. specifications.**



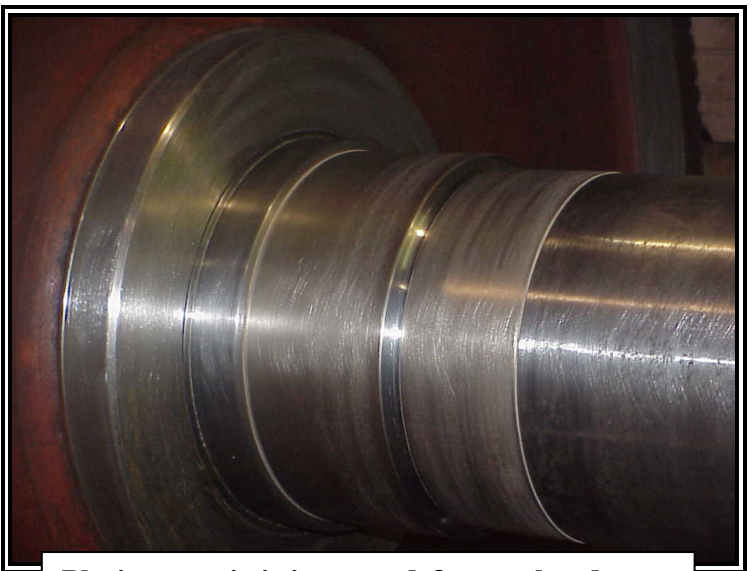
**Shaft is plated with copper for build up & filling gouges from bearing failure. Also prepared for nickel plating**



**Using a flow through anode nickel plating is in process.**



**The quill shaft is set up in a lathe for rotation during plating process to obtain a uniform build up.**



**Plating repair is inspected & completed to Mfg. specifications.**