

CRYOCOOLER SERVICE REPORT

Date of work: 8-30-2004 through 9-1-2004
Beamline: 33
Requestor: E. Karapetrova
Vessel serial no: AMG00100/544W1 **Pump serial no:** 6-E-95
Oxford series: B
Pump operating hours: 10504
Technician(s): D. Burke

Summary of work:

1. Pump bearing replace; impeller gap to 0.020"; bearing run-in per manual.
2. Motor shaft housing and related parts cleaned with alcohol.
3. Helium leak check high pressure loop: no leaks found.
4. Evacuate vessel jacket and three bayonets.
5. After installation, cryocooler was placed back on line by user using electric power backed up by the emergency power system (normal practice). During some work by contractors (coordinated by local floor coordinator) the e-power system was taken down. The cryocooler system warmed up and blew the rupture disk on the high pressure side. This occurred near the end of the maintenance period in first week of October, 2004. Rupture disk was replaced. Evacuation of the loop, purging, filling and leak checking (if applicable) was performed by user at user's request.

[pdf/Request13IDMay2004.pdf](#)

[Link to copy of logbook notes](#)

[Link to User request form](#)

[Link to LN2 pump manual](#)