



BHZ61 – 50+ years of service, (PXMBHGC4WP-01000011)



Brazing of Cu block to SS insert



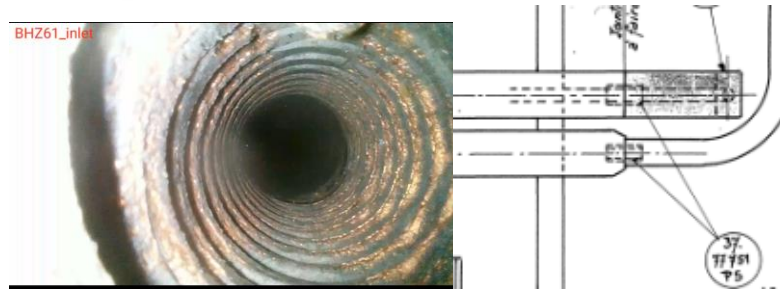
Brazed Insert (sil-fos)



Inside cooling hose.
Analysis:
(<https://edms.cern.ch/document/3064730>)



Brazing of ss hose fitting
(method tbc)



Brazed insert between busbar and coil (Sil-fos)



ONO/XNOQSK – 50+ years of service (PXMM_CAIWP-LO000017)



Demin Resin in the inlet
manifold



Brazing of Cu to Cu

BT.BHZ10 – Installed LS2 (PXMBHGAWWP-SP000001)



Inside cooling hose, as
per main bending?
Analysis:
(<https://edms.cern.ch/document/3064730>)

BTM.BHZ10 – Installed LS2 (PXMBXGEHWP-SP000001)



Cu – Cu Sil-fos brazing



Cu – SS vacuum brazing



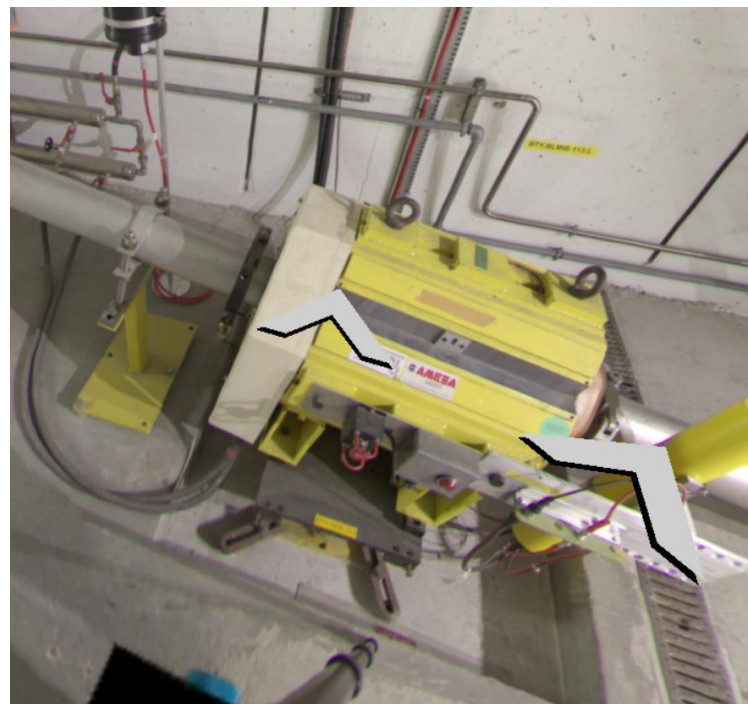
BTY.BVT116 – Installed 90's (PXMBXFBCWP-01000011)

Pollution (Video)



BTY.QDE113 – Installed 1990's (hoses replaced in the 2010's) (PXMQNCDNWP-AU000005)

Pollution (Video)

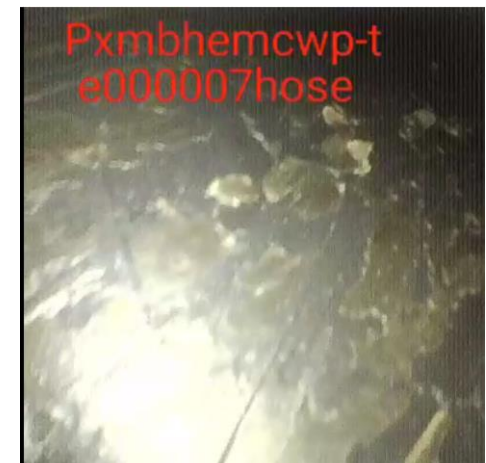


XT03.MB.0500, HIE – ISOLDE (PXMBHEMCWP-TE000007)

Cu – CCZ Sil-fos brazing



Deposits in hose



L4L.MLF1220, Source solenoid Installed 2014 (PXMLNABNWC-DA000004)

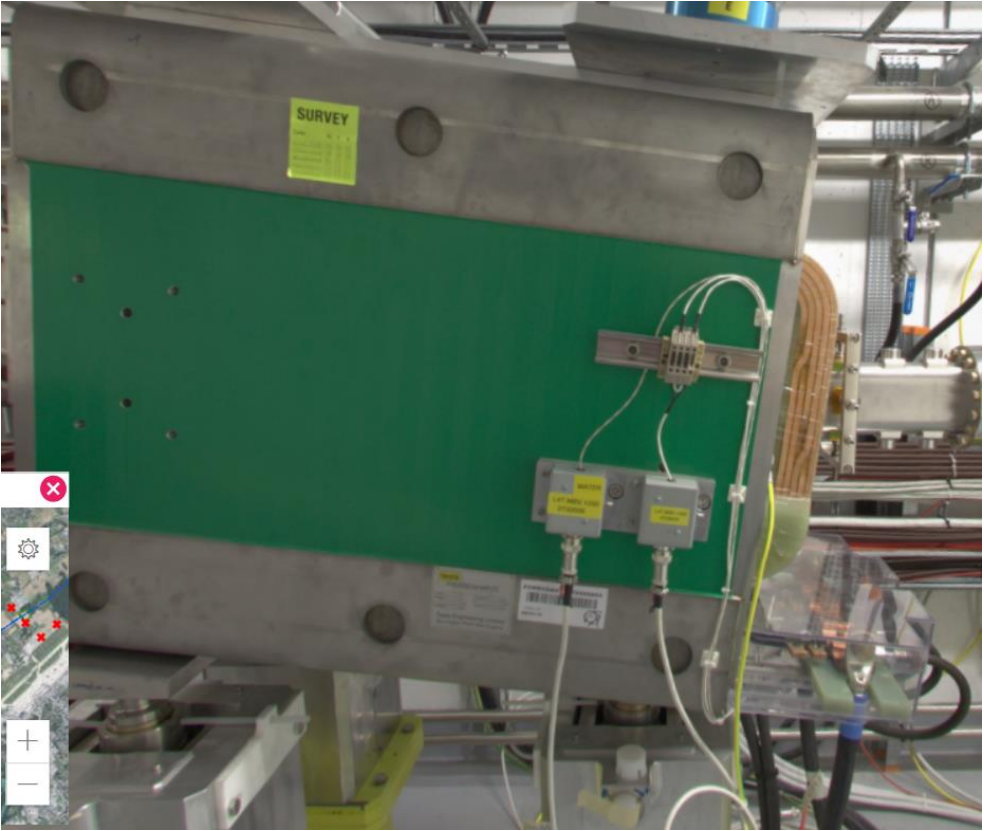
Cu – Cu brazing?



Deposits in hose



L4T,MBV1250 – Installed 2015, (PXMBXDAHWP-TE000004)



Cu – Cu brazing??

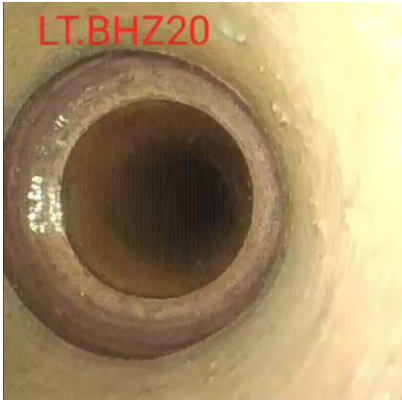


Cu erosion?

Lt.BHZ20 installed 2019 (PXMBHEJCWP-SD000001)



Cu – SS vacuum brazing



AD BHW Coil (workshop) (PXMBHHFC01-00000005) Installed 1986, Failed at brazed joint 2020?



Cu – Cu Sil-Fos brazing



AD Transfer line DE.QFO7020 (PXMQNAFNWP-SX000040), Installed 2014



Cu – SS vacuum brazing



Cu – Cu Sil-Fos brazing



AD.QFC 54, 3rd set of coils installed in 2023 38 years of operation)
(PXMQNEPCWP-00000001)



Cu erosion due to high water speed (8 to 14 m/s)

