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| Traveler Title | C100R Top Hat Flange Lapping |
| Traveler Abstract | The following traveler records lapping data for C100R Top Hats  |
| Traveler ID | C100R-CHEM-THAT-LAP |
| Traveler Revision  | R1 |
| Traveler Author | Alex Wildeson |
| Traveler Date | 6-May-21 |
| NCR Informative Emails |  |
| NCR Dispositioners |  |
| D3 Emails |  |
| Approval Names | A. Wildeson | A. Anderson | A. Reilly |  |
| Approval Signatures |  |  |  |  |
| Approval Dates |  |  |  |  |
| Approval Title | Author | Reviewer | Project Manager |  |

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| References | List and Hyperlink all documents related to this traveler. This includes, but is not limited to: safety (THAs, SOPs, etc), drawings, procedures, and facility related documents. |
| [Top Hat Seal Surface Repair Procedure](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-41427/CP-C100-CAV-LAP.pdf) |  |  |  |  |
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| Revision Note |  |
| R1 | Initial release of this Traveler. |

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| Step No. | Instructions | Data Input |
|  | Input VTA Test Top Hat Serial No. | [[THATSN]] <<THATSN>>[[InitDate]] <<TIMESTAMP>>[[InitTech]] <<SRF>> |
| 1 | Lap Top Hat using C100 [Top Hat Lapping procedure](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-41427/CP-C100-CAV-LAP.pdf).  | [[LapTech]] <<SRF>>[[LapDate]] <<TIMESTAMP>>[[LapComment]] <<COMMENT>> |
| 2 | Inspect Top Hat surface finish for imperfections. | [[VisualTech]] <<SRF>>[[VisualDate]] <<TIMESTAMP>>[[VisualComment]] <<COMMENT>>[[VisualInspection]] <<YESNO>>[[VisualPass]] <<YESNO>> |
| 3 | Check surface finish using a Surface Roughness Tester. Surface finish must be 16 micro inch or better. If Top Hat passes, take it to the CMM room for flatness and surface finish inspection. If Top Hat flange fails inspection, contact your supervisor | [[SurfaceTech]] <<SRF>>[[SurfaceDate]] <<TIMESTAMP>>[[SurfacePass]] <<YESNO>> |
| 4 | Inspection - C100 Top Hat Flange1. Use Profilometer in (4) corners of Top Hat flange. Make sure not to take measurement in seal area.
2. Measure FPC flange flatness using CMM.
 | [[InspTech]] <<SRFCVP>>[[InspDate]] <<TIMESTAMP>>[[Finish1]] <<INTEGER>>[[Finish2]] <<INTEGER>>[[Finish3]] <<INTEGER>>[[Finish4]] <<INTEGER>>[[FinishAverage]] <<TEXT>>[[Flatness]] << FLOAT >>[[InspectComment]] <<COMMENT>> |