



# WASHER-DISINFECTOR CLEANING MONITOR

## TROUBLESHOOTING GUIDE

| Result   | Description   | Possible Reasons for Result  | Level 1: Corrective Action<br>(conducted by Sterile Processing personnel)   | Level 2: Corrective Action<br>(conducted by Technical Service)  |
|--|---|--|---|---|
| <br><b>Pass</b><br>(Optimum Result)   | Red test soil is completely removed and no residuals are left. The result indicates sufficient cleaning achieved at the place of positioning of the Cleaning Monitor. | Optimal Result   | Not Applicable  | Not Applicable  |
| <br><br><b>Fail</b><br>(Moderate Results)      | Most of the test soil is being removed however some residuals of the red spot are detected primarily in the areas protected by the Cleaning Monitor Holder.           | <ul style="list-style-type: none"> <li>• Incorrect positioning for Washer-Disinfector Monitor i.e. positioning some of the instruments in the load prevents direct access of cleaning solutions to the Cleaning Monitor (shadowing)</li> <li>• Cleaning time too short</li> <li>• Cleaning temperature does not match recommendation for solutions</li> <li>• Dosage of the cleaning solutions too low</li> <li>• Clogged or loose spray arms</li> </ul>   | <ul style="list-style-type: none"> <li>• Assure the time and temperature for the wash cycle matches what is recommended by the manufacturer of the washing solutions</li> <li>• Check dosage</li> <li>• Check function of detergent pump. Mark the detergent bottles to ensure pump is administering detergents</li> <li>• Check pump lines for clogs</li> <li>• Check expiration date of cleaner (IMPORTANT WHEN USING ENZYMATICAL CLEANERS)</li> <li>• Assure spray arms are tight, free of clogs and water ports on spray arms are oriented for maximum efficiency</li> </ul>  | If Level 1 corrective action doesn't change the results consider other possible reasons: <ul style="list-style-type: none"> <li>• Adjust cleaning time and/or temperature to fit with chemistry in use</li> <li>• Extend cleaning time</li> <li>• Increase dosage per washing cycle</li> <li>• Repair or replace spray arms</li> <li>• Check function of the pump</li> </ul>  |
| <br><br><b>Fail</b><br>(Insufficient Results) | Major portion of the red test soil is being removed however residuals are clearly visible.  | <ul style="list-style-type: none"> <li>• Incorrect positioning for Washer-Disinfector Monitor i.e. positioning some of the instruments in the load prevents direct access of cleaning solutions to the Cleaning Monitor (shadowing)</li> <li>• Overloading or incorrect loading</li> <li>• Cleaning time too short</li> <li>• Cleaning temperature does not match recommendation for solutions</li> <li>• Dosage of the cleaning solutions is too low</li> <li>• No uniform distribution of detergent</li> <li>• Clogged or loose spray arms</li> <li>• Insufficient water pressure</li> <li>• Residuals from pre-cleaning</li> </ul>  | <ul style="list-style-type: none"> <li>• Make sure that the time and temperature for the wash cycle are the same as recommended by the manufacturer of the washing solutions</li> <li>• Check dosage</li> <li>• Check function of detergent pump. Mark the detergent bottles to ensure pump is administering detergents</li> <li>• Check pump lines for clogs</li> <li>• Check expiration date of cleaner (IMPORTANT WHEN USING ENZYMATICAL CLEANERS)</li> <li>• Check functioning of spray system (free movement)</li> <li>• Assure spray arms are tight, free of clogs and water ports on spray arms are oriented for maximum efficiency</li> <li>• Check efficiency of the pre-rinsing protocol to avoid residuals</li> </ul>                                      | If Level 1 corrective action doesn't change the results consider other possible reasons: <ul style="list-style-type: none"> <li>• Adjust cleaning time and/or temperature to fit with chemistry in use</li> <li>• Extend cleaning time</li> <li>• Increase dosage per washing cycle</li> <li>• Repair or replace spray arms</li> <li>• Check function of the pump</li> </ul>  |
| <br><b>Fail</b><br>(Critical/Poor Results)  | Red test soil is largely or completely unaffected.  | <ul style="list-style-type: none"> <li>• Incorrect positioning of Washer-Disinfector Monitor i.e. positioning some of the instruments in the load prevents direct access of cleaning solutions to the Cleaning Monitor (shadowing)</li> <li>• Overloading or incorrect loading</li> <li>• Cleaning time too short</li> <li>• Cleaning temperature does not match recommendation for solutions</li> <li>• Dosage of the cleaning solutions too low</li> <li>• No uniform distribution of detergent</li> <li>• Clogged or loose spray arms</li> <li>• Insufficient water pressure</li> <li>• Residuals from pre-cleaning</li> <li>• Incorrect temperature for solutions</li> <li>• No cold pre-rinsing step in place or pre-rinsing too hot</li> <li>• Complete breakdown of the washing machine or the detergent</li> </ul> | <ul style="list-style-type: none"> <li>• Repeat wash cycle using smaller load, ensure that indicators are not blocked by instruments</li> <li>• Adjust cleaning time and or temperature to fit with chemistry in use</li> <li>• Extend cleaning time</li> <li>• Assure spray arms are tight, free of clogs and water ports on spray arms are oriented for maximum efficiency</li> <li>• Check function of detergent pump. Mark the detergent bottles to ensure pump is administering detergents</li> <li>• Check efficiency of the pre-rinsing protocol to avoid residuals</li> </ul> <p><b>IMPORTANT NOTE: In case of continuous malfunction it is strongly recommended not to use the Washer-Disinfector unless problems have been identified and resolved!</b></p> | If Level 1 corrective action doesn't change the results consider other possible reasons: <ul style="list-style-type: none"> <li>• Adjust cleaning time and/or temperature to fit with chemistry in use</li> <li>• Extend cleaning time</li> <li>• Increase dosage per washing cycle</li> <li>• Repair or replace spray arms</li> <li>• Check function of the pump</li> <li>• Conduct complete maintenance and repair defective spare parts</li> </ul> |