Oxygen (ml/l) = Soc * (F + Foffset) * (1 + A * T + B * T^2 + C * T^3) * OxSol(T,S) * exp(E * P / K)

F = frequency output from SBE43F, T = temperature [deg C], S = salinity [PSU] K = temperature [deg K]

OxSol(T,S) = oxygen saturation [ml/l], P = pressure [dbar]

Residual = instrument oxygen - bath oxygen

Date, Delta Ox (ml/l)

[ ] 29-Jan-11p 1.0000
Oxygen (ml/l) = Soc * (F + Foffset) * (1.0 + A * T + B * T^2 + C * T^3) * OxSol(T,S) * exp(E * P / K)
F = frequency output from SBE43F, T = temperature [deg C], S = salinity [PSU] K = temperature [deg K]
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Residual = instrument oxygen - bath oxygen
**Customer Information:**

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<tr>
<td>Contact</td>
<td>Karl Kunkle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PO Number</td>
<td>100760</td>
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</tbody>
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| Serial Number   | 43F0171                        |            |          |
| Model Number    | SBE 43F                        |            |          |

**Services Requested:**

1. Evaluate/Repair Instrumentation.
2. Perform Routine Calibration Service.

**Problems Found:**

1. The membrane was punctured or torn.

**Services Performed:**

1. Performed initial diagnostic evaluation.
2. Performed "Post Cruise" calibration of the oxygen sensor.
3. Replaced the lid and membrane assembly (0.5 mil). *
4. Replaced the electrolyte with new fluid. *
5. Performed "Final" calibration of the oxygen sensor.
6. Performed full diagnostic evaluation.

**Special Notes:**

* These services have been performed at no charge.