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SENSOR SERIAL NUMBER: 2318 SBE 63 OXYGEN CALIBRATION DATA

CALIBRATION DATE: 25-Mar-25

COEFFICIENTS:

A0 = 1.0513e + 00 B0 = -2.1977e - 01 C0 = 8.9302e - 02 E = 1.1000e - 02

A1 = -1.5000e-03 B1 = 1.6741e+00 C1 = 3.7842e-03 A2 = 4.6397e-01 C2 = 5.1478e-05

BATH	BATH	BATH	INSTRUMENT	INSTRUMENT	RESIDUAL
OXYGEN (ml/l)	` ,	` ,	OUTPUT (µsec)	OXYGEN (ml/l)	(ml/l)
0.794	30.00	0.00	30.33	0.803	0.009
0.818	26.00	0.00	31.07	0.824	0.006
0.871	20.00	0.00	32.13	0.874	0.003
0.955	12.00	0.00	33.60	0.956	0.000
1.059	6.00	0.00	34.61	1.059	-0.000
1.158	2.00	0.00	35.23	1.157	-0.001
2.421	30.00	0.00	22.10	2.425	0.004
2.544	26.00	0.00	22.72	2.547	0.003
2.691	20.00	0.00	23.91	2.692	0.001
3.200	12.00	0.00	24.92	3.199	-0.001
3.606	6.00	0.00	25.96	3.601	-0.005
3.954	2.00	0.00	26.65	3.946	-0.008
4.009	30.00	0.00	18.20	4.012	0.004
4.259	26.00	0.00	18.70	4.255	-0.004
4.692	20.00	0.00	19.47	4.690	-0.002
5.418	12.00	0.00	20.62	5.420	0.002
5.617	30.00	0.00	15.79	5.617	0.000
6.035	26.00	0.00	16.15	6.028	-0.006
6.150	6.00	0.00	21.55	6.150	0.000
6.684	20.00	0.00	16.81	6.684	-0.000
6.763	2.00	0.00	22.18	6.763	-0.000
7.725	12.00	0.00	17.85	7.727	0.002
8.758	6.00	0.00	18.71	8.760	0.001
9.254	2.00	0.00	19.62	9.258	0.004

 $T = temperature (^{\circ}C)$, P = pressure (dbar), U = Instrument output (µsec)

 S_{corr} (salinity correction function) = 1.0 for calibration in DI water

See the user manual for more information on $\boldsymbol{S}_{\text{corr}}$ calculation

V = U / 39.457071

 $Oxygen \ (ml/l) = \{((A0 + A1*T + A2*V^2)/(B0 + B1*V) - 1.0)/(C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2) + (C0 + C1*T^2) + (C0$

