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SENSOR SERIAL NUMBER: 2643
CALIBRATION DATE: 10-Sep-25

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.5794
Voffset = -0.5258
Tau20 = 0.93
A = -2.9781e-03
B = 6.4291e-05
C = -1.0120e-06
E nominal = 0.036

NOMINAL DYNAMIC COEFFICIENTS
D1 = 1.92634e-4
D2 = -4.64803e-2
H1 = -3.300000e-2
H2 = 5.00000e+3
H3 = 1.45000e+3

BATH OXYGEN (ml/l)	BATH TEMPERATURE (° C)	BATH SALINITY (PSU)	INSTRUMENT OUTPUT (volts)	INSTRUMENT OXYGEN (ml/l)	RESIDUAL (ml/l)
1.13	12.00	0.00	0.792	1.13	-0.00
1.13	2.00	0.00	0.729	1.13	-0.00
1.14	20.00	0.00	0.847	1.14	-0.00
1.14	6.00	0.00	0.754	1.14	-0.00
1.14	26.00	0.00	0.893	1.15	0.00
1.15	30.00	0.00	0.927	1.16	0.00
3.87	20.00	0.00	1.622	3.87	-0.00
3.88	26.00	0.00	1.771	3.88	0.00
3.89	12.00	0.00	1.440	3.88	-0.00
3.89	6.00	0.00	1.309	3.89	0.00
3.89	2.00	0.00	1.223	3.89	-0.00
3.90	30.00	0.00	1.878	3.90	0.00
6.66	2.00	0.00	1.721	6.66	0.00
6.68	6.00	0.00	1.871	6.68	0.00
6.70	12.00	0.00	2.104	6.70	0.00
6.72	30.01	0.00	2.853	6.71	-0.00
6.75	20.00	0.00	2.436	6.75	-0.00
6.77	26.00	0.00	2.698	6.77	0.00

V = instrument output (volts); T = temperature (°C); S = salinity (PSU); K = temperature (°K)

Oxsol(T,S) = oxygen saturation (ml/l); P = pressure (dbar)

Oxygen (ml/l) = Soc * (V + Voffset) * (1.0 + A * T + B * T² + C * T³) * Oxsol(T,S) * exp(E * P / K)

Residual (ml/l) = instrument oxygen - bath oxygen

