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SENSOR SERIAL NUMBER: 2945
CALIBRATION DATE: 02-Aug-25

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.5116
Voffset = -0.4970
Tau20 = 1.31
A = -3.3864e-03
B = 1.3459e-04
C = -2.1427e-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)
1.15	12.00	0.00	0.803	1.15	-0.00
1.15	2.00	0.00	0.731	1.15	0.00
1.15	6.00	0.00	0.760	1.16	0.00
1.18	20.00	0.00	0.870	1.18	0.00
1.19	30.00	0.00	0.953	1.19	-0.00
1.19	26.00	0.00	0.920	1.19	0.00
3.94	12.00	0.00	1.543	3.93	-0.00
3.94	6.00	0.00	1.395	3.94	0.00
3.94	2.00	0.00	1.298	3.94	-0.00
3.95	20.00	0.00	1.747	3.94	-0.00
3.96	26.00	0.00	1.909	3.96	-0.00
3.96	30.01	0.00	2.019	3.96	0.00
6.74	2.00	0.00	1.868	6.74	-0.00
6.77	6.00	0.00	2.040	6.77	-0.00
6.83	12.00	0.00	2.314	6.84	0.00
6.87	30.02	0.00	3.137	6.87	-0.00
6.90	20.00	0.00	2.684	6.90	-0.00
6.93	26.00	0.00	2.969	6.93	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

