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SENSOR SERIAL NUMBER: 3704
CALIBRATION DATE: 12-Mar-25

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.4728
Voffset = -0.4883
Tau20 = 1.08
A = -2.7658e-03
B = 1.1023e-04
C = -1.8809e-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	0.813	1.13	-0.00
1.14	2.02	0.00	0.738	1.14	0.00
1.14	6.00	0.00	0.768	1.14	0.00
1.14	20.10	0.00	0.879	1.14	-0.00
1.14	26.00	0.00	0.928	1.15	0.00
1.15	30.00	0.00	0.964	1.15	0.00
3.89	12.00	0.00	1.602	3.89	0.00
3.89	30.00	0.00	2.101	3.89	0.00
3.89	6.00	0.00	1.446	3.89	-0.00
3.89	2.00	0.00	1.343	3.89	-0.00
3.90	26.00	0.00	1.987	3.90	0.00
3.90	20.05	0.00	1.820	3.90	-0.00
6.66	2.00	0.00	1.951	6.66	-0.00
6.67	6.00	0.00	2.130	6.67	0.00
6.69	12.00	0.00	2.404	6.69	-0.00
6.71	30.00	0.00	3.265	6.71	-0.00
6.72	26.00	0.00	3.073	6.73	0.00
6.73	20.03	0.00	2.786	6.73	-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

