SEA-BIRD SCIENTIFIC
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SENSOR SERIAL NUMBER: 2318
CALIBRATION DATE: 21-Aug-19

SBE 63 OXYGEN TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

TA0 = 6.756068e-004 TA2 = -1.228671e-007
TA1 = 2.594131e-004 TA3 = 1.260879e-007

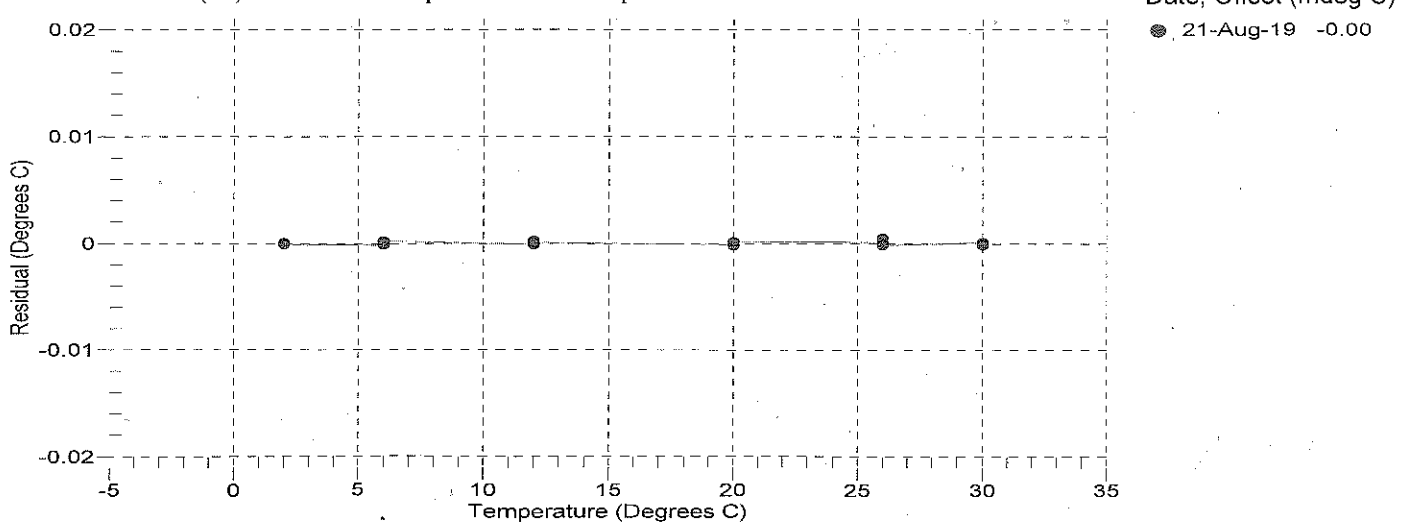
BATH TEMP (° C)	INSTRUMENT OUTPUT(V)	INST TEMP (° C)	RESIDUAL (° C)
2.0000	1.11627	2.0001	0.00005
2.0000	1.11627	2.0001	0.00005
2.0000	1.11627	2.0001	0.00005
2.0002	1.11627	2.0001	-0.00015
5.9998	0.99207	5.9996	-0.00015
6.0000	0.99206	6.0000	-0.00002
6.0001	0.99206	6.0000	-0.00012
6.0001	0.99205	6.0003	0.00022
11.9999	0.82629	11.9998	-0.00014
11.9999	0.82628	12.0002	0.00025
12.0001	0.82628	12.0002	0.00005
12.0001	0.82628	12.0002	0.00005
20.0000	0.64284	19.9999	-0.00012
20.0001	0.64284	19.9999	-0.00022
20.0001	0.64284	19.9999	-0.00022
20.0002	0.64283	20.0004	0.00017
25.9998	0.53106	25.9999	0.00014
26.0000	0.53105	26.0005	0.00053
26.0000	0.53106	25.9999	-0.00006
26.0001	0.53106	25.9999	-0.00016
29.9999	0.46740	30.0000	0.00013
30.0001	0.46740	30.0000	-0.00007
30.0001	0.46740	30.0000	-0.00007
30.0002	0.46740	30.0000	-0.00017

V = Instrument Output (Volts)

$L = ln(100000 * V / (3.3 - V))$

$\text{Temperature ITS-90 (°C)} = 1 / (TA0 + (TA1 * L) + (TA2 * L^2) + (TA3 * L^3)) - 273.15$

Residual (°C) = instrument temperature - bath temperature



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Pressure Test Certificate

Test Date: 2019-08-21

Description: SBE-37 Microcat

Sensor Information:

Model Number: SBE-37

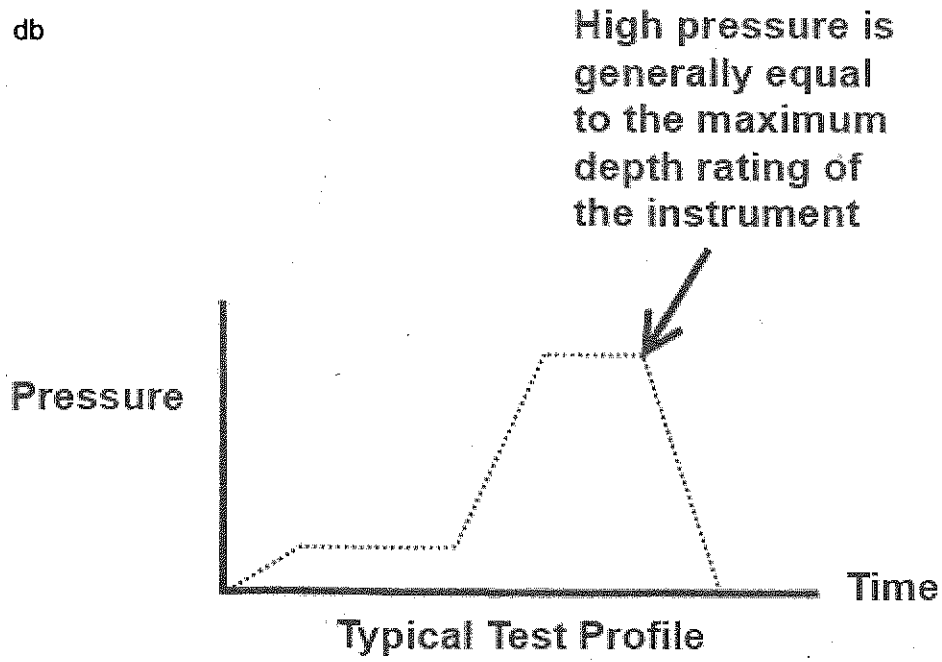
Serial Number: 21145

Pressure Test Protocol:

Low Pressure Test: 40	PSI	Held For: 15	Minutes
High Pressure Test: 2900	PSI	Held For: 15	Minutes

Passed Test: True

Tested By: db



Typical Test Profile