

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2023-066</u>	Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>02 Jun 2023</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>73274</u>	
Initial Standby Value: <u>24 + 5984</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: <u>4.85</u> After: <u>✓</u> Notes: <u>standardization done 1 Jun 2023</u>	K ₁₅ VALUE: 0.999 <u>87</u> Batch #: <u>P166</u> Batch Date: <u>06 Apr 2025</u>
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>~21.5</u> °C Room Temperature: <u>22.2</u> °C Analyst: <u>CI</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
781	22	20	1.73126	1.73125		
871	SC04	20	1.72830	1.72832		
782A	22	10	1.68940	1.68938		
829	42	250	1.78424	1.78425		
783	22	5	1.58183	1.58182		
845	46	150	1.77686	1.77685		
780A	22	bet -5	1.79320	1.79320		
780B	22	bet -5	1.79320	1.79321		
784	22	0	1.33785	1.33786		
812	39	300	1.78792	1.78795		
782B	22	10	1.68710	1.68712		
809	GE01	0	0.86973	0.86970		
787	27	250	1.78773	1.78773		
802	GE01	350	1.78825	1.78828		
205	P12	1000m	1.96748	1.96749		
203	P12	1500	1.97502	1.97501		
204	P12	1250	1.97187	1.97185		
200	P12	3000	1.98196	1.98195		
222	P12	800	1.96367	1.96371	1.96373	
201	P12	2500	1.98093	1.98093		
156	P5	5	1.86203	1.86202		
256	P14	1000	1.96843	1.96844		
252	P14	2000	1.97904	1.97906	1.97913	1.97908
251	P14	2500	1.98103	1.98102		
199	P12	3000	1.98206	1.98201		
202A	P12	2000	1.97905	1.97909		

Final Standby Value:

24 + 5984

Notes: refer to 2023-010 for standardization info

insert not fully seated

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2023-066</u>	Cast/Station Name: _____	Analysis Date (dd mmm yyyy): _____
Autosal Model: <u>S400B</u>	Serial Number: <u>73274</u>	<u>02 Jun 2023</u>
Initial Standby Value: <u>24 + 5984</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: <u>4.85</u> After: <u>✓</u> Notes: <u>standardization done 1 Jun 2023</u>	K ₁₅ VALUE: 0.999 <u>87</u> Batch #: <u>P166</u> Batch Date: <u>06 Apr 2025</u>
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>~21.5</u> °C Room Temperature: <u>21.1</u> °C Analyst: <u>CT</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
5028	P7	160p	1.86408	1.86408		
253	P14	1750	1.97724	1.97723		
160	P7	5	1.86402	1.86401		
254A	P14	1500	1.97502	1.97506		
5026	P5	160p	1.86200	1.86201		
5035	P8	100p	1.86448	1.86448		
256	P14	3000	1.98250	1.98249		
5044	P13	160p	1.86347	1.86345		
255	P14	1250	1.97185	1.97186		
254B	P14	1500	1.97501	1.97503		
297	P16	3506	1.98293	1.98296		
296	P16	3506	1.98293	1.98296		
132	P4	1250	1.97185	1.97180		sample was full almost to top
163	P8	1500	1.97523	1.97522		
5005	JF1	100p	1.79262	1.79260		
133A	P4	1000	1.96810	1.96810		
166B	P8	800	1.96467	1.96473		
166A	P8	800	1.96465	1.96465		
5186	P9	100p	1.86674	1.86669		
184	P8	5	1.86143	1.86142		
247	P13	5	1.86333	1.86334		
187	P9	5	1.86652	1.86654		
64	75	200	1.94431	1.94442		
151	P4	800	1.96361	1.96361		
65	75	175	1.94369	1.94372		Final Standby Value:
125	P4	100	1.93281	1.93286		<u>24 + 5985</u>

Notes: refer to 2023-010 for std. info

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2023-066</u>	Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>02 Jun 2023</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>73274</u>	
Initial Standby Value: <u>24 + 5984</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: <u>4.85</u>	K ₁₅ VALUE: 0.999 <u>87</u>
	After: <u>✓</u>	Batch #: <u>P166</u>
	Notes: <u>std. done 1-Jun-2023</u>	Batch Date: <u>06 Apr 2025</u>
		Analyst: <u>CI</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
5011	JF4	160p	1.73558	1.73562	1.73563	
162A	P8	2000	1.97908	1.97967		
131	P4	1250	1.97189	1.97189		
162B	P8	2000	1.97905	1.97905		
164	P8	1250	1.97229	1.97228		
133B	P4	1000	1.96820	1.96830	1.96829	
165	P8	1000	1.96837	1.96839		
134	P4	800	1.96319	1.96321		sample very full
193	P12	100	1.91648	1.91645		
521	P24	2000	1.97877	1.97875		
2023	P12	2000	1.97903	1.97904		
491B	P22	2000	1.97864	1.97864		
491A	P22	2000	1.97858	1.97861		
492	P22	1500	1.97432	1.97430		
490	P22	2500	1.98105	1.98103		
522	P24	1500	1.97421	1.97425		
489	P22	3000	1.98248	1.98247		
523	P24	1250	1.97115	1.97116	1.97113	
524	P24	1000	1.96731	1.96735		
488	P22	3500	1.98328	1.98325		
493	P22	1250	1.97158	1.97159		
5082	P35	160p	1.86675	1.86673		
5080	100p	100p	1.86860	1.86864		
518	P24	3500	1.98319	1.98320		
494	P22	1000	1.96838	1.96836		Final Standby Value:
486	P24	5	1.86912	1.86910		<u>24 + 5985</u>

Notes: refer to 2023-010 for std. info

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2023-066</u>	Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>02 Jun 2023</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>73274</u>	
Initial Standby Value: <u>24 + 5985</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: <u>4.85</u> After: <u>-</u> Notes: <u>std. done 1-Jun-2023</u>	K ₁₅ VALUE: <u>0.999 87</u> Batch #: <u>P166</u> Batch Date: <u>06 Apr</u>
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>~21.5</u> °C Room Temperature: <u>22.7</u> °C Analyst: <u>CI</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
5074	loop	loop	1.86886	1.86888		
5073	P21	loop	1.86922	1.86923		
519	P24	3000	1.98241	1.98245		
480	P20	800	1.96282	1.96280		
520A	P24	2500	1.9891	1.98094		
623	P26	200	1.93643	1.93647		
543	P35	5	1.86669	1.86669		sample very full
520B	P24	2500	1.98090	1.98091		
303B	P16	1000	1.96857	1.96859		
442	P20	125				
303A	P16	1000	1.97222	1.97228		no insert!
441B	P20	1500	1.97414	1.97413		
442	P20	125	1.97109	1.97111		
302	P16	1250	1.97123	1.97123		
430	P20	100	1.87674	1.87674		
301	P16	1500	1.97704	1.97711		no insert! reading just too high and out line
5063	loop	loop	1.86735	1.86737		
300	P16	2000	1.97888	1.97888		
402	P17	5	1.86446	1.86451		
299B	P16	2500	1.98118	1.98119		
5058	P17	loop	1.86458	1.86459		
299A	P16	2500	1.98122	1.98122		
397	P16	100	1.90705	1.90704		
443	P20	1000	1.96766	1.96766		
437	P20	3500	1.98324	1.98325		
298	P16	3000	1.98253	1.98260		Final Standby Value: <u>24 + 5985</u>

Notes: refer to 2023-010 for std info

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2023-066</u>	Cast/Station Name: <u>many</u>	Analysis Date (dd mmm yyyy): <u>05 Jun 2023</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>73274</u>	
Initial Standby Value: <u>24 + 8984</u>	Ratio After Standardization: <u>24.5980</u>	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: <u>4.85</u> After: <u>4.80</u> Notes: <u>slight adjustment</u>	K ₁₅ VALUE: 0.999 <u>86</u> Batch #: <u>P165</u> Batch Date: <u>15 Apr 2024</u>
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>~22</u> °C Room Temperature: <u>~22</u> °C Analyst: <u>KS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
438A	P20	4	1.98232	1.98233		
5098	loop	4	1.86603	1.86607	1.86605	
414	P18	11	1.93561	1.93561		
636A	P26	7	1.978458	1.97457		
DWR	CB19		1.99760	1.99761		
632A	P26	3	1.98323	1.98324		
418	P18	15	1.93329	1.93332		
441A	P20	7	1.97409	1.97408		
736	6	2	1.77590	1.77591		
438B	P20	4	1.98232	1.98231		
423	P18	20	1.86533	1.86532		
5103	loop	—	1.85924	1.85931	1.85930	
690	14	2	1.78157	1.78158		
412	P18	9	1.96313	1.96311		
409B	P18	6	1.97425	1.97423		
633	P26	4	1.98253	1.98259	1.98260	
637	P26	8	1.97176	1.97178		
391	P16	r5	1.95131	1.95130		
436	P20	2	1.98311	1.98312		- Insert was a loose f.t. Extracted very easily.
439	P20	5	1.98080	1.98079		
425	P18	22	1.86522	1.86523		
765	2	2	1.79114	1.79113		
416	P18	13	1.93912	1.93910		
419	P18	16	1.92418	1.92421		
634	P26	5	1.98108	1.98107		Final Standby Value:
DWR	CB19		1.99765	1.99764		

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2023-066</u>	Cast/Station Name: <u>man</u>	Analysis Date (dd mmm yyyy): <u>05 June 2023</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>73274</u>	
Initial Standby Value: <u>2415980</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: _____	K ₁₅ VALUE: <u>0.999</u>
	After: _____	Batch #: _____
	Notes: _____	Batch Date: _____
		Bath Temperature: <u>24</u> °C
		Sample Temperature: <u>~22</u> °C
		Room Temperature: <u>~22</u> °C
		Analyst: <u>KS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
421	P18	18	1.86983	1.86985		
407	P18	4	1.98105	1.98104		
5107	loop	—	1.82267	1.82265		
632B	P26	3	1.98327	1.98327		
724	9	2	1.78016	1.78014		
631	P26	2	1.98366	1.98365		
417	P18	14	1.93553	1.93554		
406	P18	3	1.98227	1.98228		
635	P26	6	1.97886	1.97885		
617	P26	5	1.97489	1.97490		
411	P18	8	1.96682	1.96680		
405	P18	2	1.98307	1.98306		
426	P18	17	1.90458	1.90461		
5115	Loop	—	1.77177	1.77178		
857	56	2	1.80883	1.80881		
638	P26	9	1.96814	1.96815		
708	12	3	1.78080	1.78083		
426	P18	23	1.86526	1.86529		
636B	P26	7	1.97454	1.7454		
440	P20	6	1.97891	1.97890		
413	P18	10	1.95777	1.95778		
415	P18	12	1.94211	1.94210		
749	3	2	1.79215	1.79213		
5099	loop	—	1.86355	1.86354		
422	P18	19	1.86692	1.86703	1.86700	Final Standby Value: _____
DWR	CB19	—	1.99750	1.99751		

Notes: _____

2023-066 labels 1/4

Water Properties Group

Institute of Ocean Sciences, Ocean Sciences Division

PORTASAL ANALYSIS LOGSHEET

Cruise ID: _____		Cast/Station Name: _____		Analysis Date (dd mmm yyyy): _____	
Portasal Serial Number: _____		Reference Calibration Values: _____		_____ _____ _____	
Initial Standby Value: _____		- _____ + _____ ± _____		Zero Value: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.	Bath Temperature: _____ °C		
Conductivity must be ± 0.00001 compared to Standard	Before: _____	K ₁₅ VALUE: 0.999	Sample Temperature: _____ °C		
	After: _____	Batch #: _____	Room Temperature: _____ °C		
	Notes: _____	Batch Date: _____	Analyst: _____		

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments		
781 Sal 22 2023-066 20 m bot 2 812 Sal 39 2023-066 300 m bot 3	871 Sal SC04 2023-066 20 m bot 1	782A Sal 22 2023-066 10 m bot 3	829 Sal 42 2023-066 250 m bot 3	783 Sal 22 2023-066 5 m bot 4	845 Sal 46 2023-068 150 m bot 2	780A Sal 22 2023-066 Bot-5 m bot 1	780B Sal 22 2023-066 Bot-5 m bot 1	784 Sal 22 2023-066 0 m bot 5
222 Sal P12 2023-066 800 m bot r5 253 Sal P14 2023-066 1750 m bot 5	782B Sal 22 2023-066 10 m bot 3	809 Sal GEO1 2023-066 0 m bot 8	787 Sal 27 2023-066 250 m bot 3	802 Sal GEO1 2023-066 350 m bot 1	205 SAL P12 2023-066 1000 m bot 8	203 SAL P12 2023-066 1500 m bot 6	204 SAL P12 2023-066 1250 m bot 7	200 SAL P12 2023-066 3000 m bot 3
297 SAL P16 2023-066 3500 m bot 3	201 SAL P12 2023-066 2500 m bot 4	156 SAL P5 2023-066 5 m bot 1	256 Sal P14 2023-066 1000 m bot 8	252 Sal P14 2023-066 2000 m bot 4	251 Sal P14 2023-066 2500 m bot 2	199 SAL P12 2023-066 3000 m bot 2	202A SAL P12 2023-066 2000 m bot 5	5028 SAL P7 2023-066 Loop m bot 3
296 SAL P16 2023-066 3500 m bot 2	160 SAL P7 2023-066 5 m bot 1	254A Sal P14 2023-066 1500 m bot 6	5026 SAL P5 2023-066 Loop m bot 3	5035 SAL P8 2023-066 Loop m bot 1	250 Sal P14 2023-066 3000 m bot 2	5044 SAL P13 2023-066 Loop m bot 2	255 Sal P14 2023-066 1250 m bot 7	254B Sal P14 2023-066 1500 m bot 6
132 SAL P4 2023-066 1250 m bot 3	163 Sal P8 2023-066 1500 m bot 2	5005 SAL JF1 2023-066 Loop m bot 1	133A SAL P4 2023-066 1000 m bot 4	166B Sal P8 2023-066 800 m bot 5	166A Sal P8 2023-066 800 m bot 5	5186 SAL P9 2023-066 Loop m bot 4		

2023-066 labels 2/4

Water Properties Group

Institute of Ocean Sciences, Ocean Sciences Division

PORTASAL ANALYSIS LOGSHEET

Cruise ID: _____		Cast/Station Name: _____		Analysis Date (dd mmm yyyy): _____	
Portasal Serial Number: _____		Reference Calibration Values: _____		_____	
Initial Standby Value: _____		- _____ + _____ ± _____		Zero Value: _____	
Cell Standardization (Daily)		Standardization Values:		Standard Info.	
Conductivity must be ± 0.00001 compared to Standard		Before: _____		K ₁₅ VALUE: 0.999 _____	
		After: _____		Batch #: _____	
		Notes: _____		Batch Date: _____	
				Bath Temperature: _____ °C	
				Sample Temperature: _____ °C	
				Room Temperature: _____ °C	
				Analyst: _____	

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
184 Sal P8 2023-066 5 m bot 23	247 SAL P13 2023-066 5 m bot 1	187 SAL P9 2023-066 5 m bot 2	64 SAL 75 2023-066 200 m bot 2	151 Sal P4 2023-066 800 m bot r5	65 SAL 75 2023-066 175 m bot 3	125 Sal P4 2023-066 100 m bot r5
131 SAL P4 2023-066 1250 m bot 2	162B Sal P8 2023-066 2000 m bot 1	164 Sal P8 2023-066 1250 m bot 3	133B SAL P4 2023-066 1000 m bot 4	165 Sal P8 2023-066 1000 m bot 4	134 SAL P4 2023-066 800 m bot 5	193 Sal P12 2023-066 100 m bot r5
491B Sal P22 2023-066 2000 m bot 5	491A Sal P22 2023-066 2000 m bot 5	492 Sal P22 2023-066 1500 m bot 6	490 Sal P22 2023-066 2500 m bot 4	522 Sal P24 2023-066 1500 m bot 6	489 Sal P22 2023-066 3000 m bot 3	523 Sal P24 2023-066 1250 m bot 7
493 Sal P22 2023-066 1250 m bot 7	5082 SAL P35 2023-066 Loop m bot 6	5080 SAL loop 2023-066 Loop m bot 1	518 Sal P24 2023-066 3500 m bot 2	494 Sal P22 2023-066 1000 m bot 8	486 Sal P21 2023-066 5 m bot 2	5074 SAL loop 2023-066 Loop m bot 1
520A Sal P24 2023-066 2500 m bot 4	623 Sal P26 2023-066 200 m bot r5	543 SAL P35 2023-066 5 m bot 1	520B Sal P24 2023-066 2500 m bot 4	303B SAL P16 2023-066 1000 m bot 9	303A SAL P16 2023-066 1000 m bot 9	441B SAL P20 2023-066 1500 m bot 7
						5073 Sal P21 2023-066 Loop m bot 4
						519 Sal P24 2023-066 3000 m bot 3
						480 Sal P20 2023-066 800 m bot r5
						302 SAL P16 2023-066 1250 m bot 8

Final Standby Value: _____

2023-066 labels 3/4

Water Properties Group

Institute of Ocean Sciences, Ocean Sciences Division

PORTASAL ANALYSIS LOGSHEET

Cruise ID: _____		Cast/Station Name: _____		Analysis Date (dd mmm yyyy): _____	
Portasal Serial Number: _____		Reference Calibration Values: _____		_____	
Initial Standby Value: _____		- _____ + _____ ± _____		Zero Value: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.	Bath Temperature: _____ °C		
Conductivity must be ± 0.00001 compared to Standard	Before: _____	K ₁₅ VALUE: 0.999 _____	Sample Temperature: _____ °C		
	After: _____	Batch #: _____	Room Temperature: _____ °C		
	Notes: _____	Batch Date: _____	Analyst: _____		

430 Sal P20 2023-066 100 m bot r5	301 SAL P16 2023-066 1500 m bot 7	5063 SAL loop 2023-066 Loop m bot 1	300 SAL P16 2023-066 2000 m bot 6	402 SAL P17 2023-066 5 m bot 1	299B SAL P16 2023-066 2500 m bot 5	5058 SAL P17 2023-066 Loop m bot 3	299A SAL P16 2023-066 2500 m bot 5	397 Sal P16 2023-066 100 m bot r5	443 SAL P20 2023-066 1000 m bot 9
437 SAL P20 2023-066 3500 m bot 3	298 SAL P16 2023-066 3000 m bot 4	June 05 2023		438A SAL P20 2023-066 3000 m bot 4	5098 SAL loop 2023-066 Loop m bot 1	414 Sal P18 2023-066 400 m bot 11	636A SAL P26 2023-066 1500 m bot 7	632A SAL P26 2023-066 3500 m bot 3	418 Sal P18 2023-066 175 m bot 15
441A SAL P20 2023-066 1500 m bot 7	736 Sal 6 2023-066 175 m bot 2	438B SAL P20 2023-066 3000 m bot 4	423 Sal P18 2023-066 50 m bot 20	5103 SAL loop 2023-066 Loop m bot 1	690 Sal 14 2023-066 300 m bot 2	412 Sal P18 2023-066 800 m bot 9	409B Sal P18 2023-066 1500 m bot 6	633 SAL P26 2023-066 3000 m bot 4	637 SAL P26 2023-066 1250 m bot 8
391 Sal P16 2023-066 800 m bot r5	436 SAL P20 2023-066 3500 m bot 2	439 SAL P20 2023-066 2500 m bot 5	425 Sal P18 2023-066 10 m bot 22	765 Sal 2 2023-066 250 m bot 2	416 Sal P18 2023-066 250 m bot 13	419 Sal P18 2023-066 150 m bot 16	634 SAL P26 2023-066 2500 m bot 5	421 Sal P18 2023-066 100 m bot 18	407 Sal P18 2023-066 2500 m bot 4
5107 SAL loop 2023-066 Loop m bot 1	632B SAL P26 2023-066 3500 m bot 3	724 Sal 9 2023-066 150 m bot 2	631 SAL P26 2023-066 4000 m bot 2	417 Sal P18 2023-066 200 m bot 14	406 Sal P18 2023-066 3000 m bot 3	635 SAL P26 2023-066 2000 m bot 6	617 Sal P26 2023-066 1500 m bot 5	411 Sal P18 2023-066 1000 m bot 8	405 Sal P18 2023-066 3500 m bot 2

