



Purchase Order No.:	_____	Report No.:	<u>7</u>
Specification:	_____	Project:	_____
Treatment Specification:	_____	Date:	<u>July 12, 2023</u>
Manuf. P / O No.:	CCA		
Seasoning (MC%):	Min: _____		
	Max: _____		
	Ave: _____	Charge No.:	_____

PENETRATION RESULTS							MATERIAL INSPECTED						
<input checked="" type="checkbox"/> Incised Zone <input type="checkbox"/> Non-incised Zone							<input checked="" type="checkbox"/> mm <input type="checkbox"/> eighths						
	DEPTH SAPWOOD	DEPTH PEN	% SAP SAPWOOD		DEPTH SAPWOOD	DEPTH PEN	% SAP SAPWOOD	ITEM	NO. OF PIECES	SIZE / CLASS	LENGTH	<input checked="" type="checkbox"/> Lineal <input type="checkbox"/> Fbm	
1				1				HEMLOCK 1&BTR					
2				2								0	
3				3					312	3	x 12	16	14976
4				4					528	3	x 12	20	31680
5				5							x		0
6				6							x		0
7				7							x		0
8				8							x		0
9				9							x		0
0				0							x		0
1				1							x		0
2				2							x		0
3				3							x		0
4				4							x		0
PLEASE NOTE THAT CSI DOES NOT TEST CARRIERS OF PRESERVATIVES. CSI MAKES NO REPRESENTATIONS REGARDING THE COMPOSITION OR SUFFICIENCY OF CARRIERS, AND THE TESTS REFLECTED ON THIS REPORT SHOULD NOT BE RELIED UPON TO MAKE DETERMINATIONS REGARDING THE SUFFICIENCY OF LONG-TERM PERFORMANCE OF THE CARRIERS USED IN THE TESTED MATERIALS.									TREATABLE CUBIC FEET IN CHARGE: 46656				
PRESERVATIVE								TREATING CYCLE SUMMARY					
<input type="checkbox"/> Creosote <input type="checkbox"/> Pentachlorophenol <input type="checkbox"/> ACZA								<input checked="" type="checkbox"/> CCA <input type="checkbox"/> ACQ <input type="checkbox"/> 50/50 mix					
RETENTION BY ASSAY								Stage					
REQUIRED: <input type="checkbox"/> 0.25 <input checked="" type="checkbox"/> 0.40 <input type="checkbox"/> 0.60 <input type="checkbox"/> 10 lbs								TIME					
INCISED ZONE								MAX. TEMP.					
Outer Inner								MAX. PRESS.					
NON-INCISED ZONE								VACUUM					
								CONDEN.					
								Pre-condition					
								Initial Vacuum					
								Bath					
								Boil In Oil					
								Initial Air					
								Pressure					
								Exp Bath					
								Final vacuum					
								Steam / Fix					
RETENTION BY GAUGE								TOTAL TIME FOR TREATING					
REQUIRED: GAL. RETAINED GAL.								hrs					
REQUIRED: pcf RETAINED pcf								MARKING ON ACCEPTED PIECES: CSI 5N					
								<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
								<input type="checkbox"/> Random					
RUNNING TALLY								REMARKS					
NO. OF PIECES REQUIRED:								Hmlock Timbers 1 & BTR CCA					
PREVIOUSLY ACCEPTED:													
ACCEPTED THIS REPORT: 840													
TOTAL ACCEPTED TO DATE:								Inspector - Dan Spiers					

OXFORD LAB-X 2500

POLES ANALYSIS

7/7/2023 15:20

Calibration title: CCA Poles-pcf

SAMPLE ID: 230669

DENSITY = 21.7 pcf

Bit diameter = 0.196 in

Boring length = 12.00 in

Mass = 2.06 g

	%WT OXIDES	%BALANCE
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CR03 =	2.220 %	47.2
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CU0 =	0.870 %	18.5
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AS205 =	1.616 %	34.3
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TOTAL =	4.706 %WT	100.0
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RETENTION

CR03 = 0.481 pcf

CU0 = 0.189 pcf

AS205 = 0.350 pcf

TOTAL= 1.020 pcf



RECORD OF PRESSURE TREATMENT Charge No. : 230669			
Plant : Prince G	Process : FULL CELL	Preserv.Type : CCA	Concentr. 2.99 %
Cylinder : 3	Operator : kyle	Volume : 1116 C.F.	Moisture : 23.0 %
Specified Net Retention		Date In (d/m/y): 06 / 07 / 2023	TIME IN : 16.03
Assay: 0.00 pcf	Gauge: 0.00 pcf	Date Out (d/m/y): 06 / 07 / 2023	TIME OUT : 20.97

1065
Welco

Order #	Customer	Product	Species	Size/Class	Length	Pieces/FBM	Cubic Feet
	BCH WELCO	POLES TIMBERS	WRC DF	2 3X12	50 20	14 96	636.0 480.0

Treating Cycle Summary					
Operation	Start	End	Press./Vac.	Temper.(°F)	Run Time
Initial Vacuum	16.03	16.53	21.2 "hg	77	0.50
Filling	16.53	16.70	20.8 "hg	77	0.17
Soaking	16.70	16.70	13.3 "hg	74	0.00
Vac Release	16.70	16.73	2 "hg	74	0.02
Pressure	16.73	19.73	143 PSI	74	3.01
Press. Release	19.73	19.77	130. PSI	74	0.04
Pump Out	19.77	20.20	0.0 PSI	74	0.44
Final Vacuum	20.20	20.70	-10. "hg	75	0.50
Vac Release	20.70	20.78	1 "hg	76	0.08
Final Strip	20.78	20.97	1 "hg	76	0.17
Down Time	0.32 Hrs		Pause Time		0.00 Hrs
Cycle Running Time					4.92 Hrs
Total Cycle (Cycle Running Time + Pause Time)					4.92 Hrs

Material

Preservative Retention Summary			
Charging Tank Reading	Gauge (FT)	Temper.(°F)	l.Gal.@ °F
Start A	13.36	72	14763
End Fill for Pressure B	5.16	72	5700
End Pressure Period C	3.99	73	4410
End Final Drain D	12.19	73	13474

Absorption & Retentions		Imp.Gals	Pounds	LBS/CU.FT
Gross Retention	(B-C)	1289	413	0.37
Net Retention	(A-D)	1289	413	0.37

Operator : _____ Foreman : _____

RECORD OF PRESSURE TREATMENT Charge No. : 230669					
Plant : Prince G	Process : FIXATION		Preserv.Type : CCA		Concentr. 2.99 %
Cylinder : 3			Volume : 1116 C.F.		Moisture : 23.0 %
Specified Net Retention					
Assay: 0.00 pcf		Gauge: 0.00 pcf		Date In (d/m/y): 06/ 07/ 2023	TIME IN : 21.83
				Date Out (d/m/y): 07/ 07/ 2023	TIME OUT : 3.65

Treating Cycle Summary				
Operation	Start	End	Temper.(°F)	Run Time
Heating	21.83	22.15	150	0.32
Fixation	22.15	3.65	169	5.50
Down Time	0.62 Hrs		Pause Time	0.00 Hrs
Cycle Running Time				5.82 Hrs
Total Cycle (Cycle Running Time + Pause Time)				5.82 Hrs

Time (Hrs)	Temper. (°F)
23.15	178
0.15	164
1.15	165
2.15	167
3.15	169

Operator: _____ Foreman : _____



Prince George Operation
7177 Pacific St, Prince George, BC
250-561-1161

Penetration Report

Customer/Order#: Welco
Charge#: 23-0669
Product/Commodity: POLES
Standard/Spec: 423-2000

Preservative: CCA
Ref#:
Species: ~~CEDAR~~ Hemlock
Production Date: 6/7/2023

QTY	Class (pole) / Dimension (in.)	Length (ft.)
14	2	50

QTY	Class (pole) / Dimension (in.)	Length (ft.)

Core#	Penetration (mm)	Sapwood (mm)	Conformance
1	15	15	100%
2	24	24	100%
3	10	10	100%
4	21	21	100%
5	34	34	100%
6	15	15	100%
7	25	25	100%
8	25	25	100%
9	45	45	100%
10	11	11	100%
11	35	35	100%
12	10	10	100%
13	26	26	100%
14	10	10	100%
15	15	15	100%
16	14	14	100%
17	11	11	100%
18	50	50	100%
19	37	37	100%
20	11	11	100%

Core#	Penetration (mm)	Sapwood (mm)	Conformance
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

Penetration (mm): 10 50
Min Max
MC (%):
Low High

Sapwood (mm): 10 50
Min Max
% Conformance: 100%

Comments:

DOA: July/07/2023
QC: Norm Wood/Brayden Smith
INSP: Dan Spiers

Print

Signature

OXFORD LAB-X 2500

POLES ANALYSIS

11/7/2023 15:02

Calibration title: CCA Poles-pcf

SAMPLE ID: 230670

DENSITY = 22.0 pcf

Bit diameter = 0.196 in

Boring length = 12.00 in

Mass = 2.09 g

	%WT OXIDES	%BALANCE
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CR03 =	1.886 %	47.9
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CU0 =	0.657 %	16.7
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AS205 =	1.391 %	35.3
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TOTAL =	3.934 %WT	100.0
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RETENTION

CR03 = 0.415 pcf

CU0 = 0.145 pcf

AS205 = 0.306 pcf

TOTAL= 0.865 pcf



RECORD OF PRESSURE TREATMENT Charge No. : 230670					
Plant : Prince G	Process : FULL CELL	Preserv.Type : CCA	Concentr. 2.63 %		
Cylinder : 3	Operator : Mark	Volume : 1116 C.F.	Moisture : 24.0 %		
Specified Net Retention		Date In (d/m/y): 06/ 07/ 2023	TIME IN : 22.72		
Assay: 0.00 pcf Gauge: 0.00 pcf		Date Out (d/m/y): 07/ 07/ 2023	TIME OUT : 4.07		

Welco
1065

Order #	Customer	Product	Species	Size/Class	Length	Pieces/FBM	Cubic Feet
	Welco BCH	Timbers ORDER 1065 POLES	Fir WRC	3x12 2	20 50	96 14	480.0 636.0

Treating Cycle Summary					
Operation	Start	End	Press./Vac.	Temper.(°F)	Run Time
Initial Vacuum	22.72	23.22	21.3 "hg	75	0.50
Filling	23.22	23.38	21.0 "hg	75	0.17
Soaking	23.38	23.38	13.1 "hg	73	0.00
Vac Release	23.38	23.40	1 "hg	73	0.02
Pressure	23.40	2.77	147 PSI	73	3.01
Press. Release	2.77	02.80	129. PSI	73	0.04
Pump Out	2.80	3.23	0.0 PSI	73	0.43
Final Vacuum	3.23	3.73	-10. "hg	74	0.50
Vac Release	3.73	03.82	0 "hg	74	0.08
Final Strip	3.82	04.07	1 "hg	74	0.24
Down Time	0.24 Hrs		Pause Time		0.35 Hrs
Cycle Running Time					5.00 Hrs
Total Cycle (Cycle Running Time + Pause Time)					5.35 Hrs

Material

Preservative Retention Summary				
Charging Tank Reading	Gauge (FT)	Temper.(°F)	L.Gal.@ °F	
Start A	13.36	72	14763	
End Fill for Pressure B	5.16	72	5705	
End Pressure Period C	3.80	73	4194	
End Final Drain D	12.09	73	13360	

Absorption & Retentions		Imp.Gals	Pounds	LBS/CU.FT
Gross Retention	(B-C)	1511	426	0.38
Net Retention	(A-D)	1403	396	0.35

Operator : _____ Foreman : _____

* Based on
#12 initial water

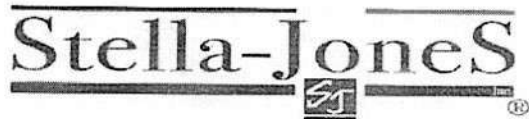


RECORD OF PRESSURE TREATMENT Charge No. : 230670					
Plant : Prince G	Process : FIXATION		Preserv.Type : CCA		Concentr. 2.63 %
Cylinder : 3			Volume : 1116 C.F.		Moisture : 24.0 %
Specified Net Retention			Date In (d/m/y): 07/ 07/ 2023	TIME IN : 7.28	
Assay: 0.00 pcf Gauge: 0.00 pcf			Date Out (d/m/y): 07/ 07/ 2023	TIME OUT: 13.12	

Treating Cycle Summary					
Operation	Start	End		Temper.(°F)	Run Time
Heating	7.28	7.62		150	0.33
Fixation	7.62	13.12		174	5.50
Down Time	0.07 Hrs		Pause Time		0.00 Hrs
Cycle Running Time					5.83 Hrs
Total Cycle (Cycle Running Time + Pause Time)					5.83 Hrs

Time (Hrs)	Temper. (°F)
8.62	169
9.62	168
10.62	169
11.62	172
12.62	174

Operator : _____ Foreman : _____



Prince George Operation
7177 Pacific St, Prince George, BC
250-561-1161

Penetration Report

Customer/Order#: WELCO
Charge#: 23-0670
Product/Commodity: TIMBERS
Standard/Spec: CUSTOMER SPEC

Preservative: CCA
Ref#:
Species: HEM
Production Date: JULY/06/2023

QTY	Class (pole) / Dimension (in.)	Length (ft.)
96	3X12	20

QTY	Class (pole) / Dimension (in.)	Length (ft.)

Core#	Penetration (mm)	Sapwood (mm)	Conformance
1	10	10	100%
2	13	13	100%
3	12	12	100%
4	12	12	100%
5	10	10	100%
6	15	15	100%
7	9	9	100%
8	12	12	100%
9	14	14	100%
10	13	13	100%
11	13	13	100%
12	10	10	100%
13	17	17	100%
14	10	10	100%
15	12	12	100%
16	11	11	100%
17	14	14	100%
18	13	13	100%
19	10	10	100%
20	14	14	100%

Core#	Penetration (mm)	Sapwood (mm)	Conformance
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			


Penetration (mm): 9 17
Min Max
MC (%):
Low High

Sapwood (mm): 9 17
Min Max
% Conformance: 100%

Comments:

DOA: JULY/11/2023
QC: Norm wood/Mark whalley
INSP: DAN SPIERS

Print


Signature

OXFORD LAB-X 2500

POLES ANALYSIS

11/7/2023 15:10

Calibration title: CCA Poles-pcf

SAMPLE ID: 230671

DENSITY = 26.6 pcf

Bit diameter = 0.196 in

Boring length = 12.00 in

Mass = 2.53 g.

%WT OXIDES	%BALANCE
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CR03 = 1.975 %	49.9
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CU0 = 0.664 %	16.8
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AS205 = 1.318 %	33.3
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TOTAL = 3.957 %WT	100.0
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RETENTION

CR03 = 0.526 pcf

CU0 = 0.177 pcf

AS205 = 0.351 pcf

TOTAL= 1.053 pcf

**RECORD OF PRESSURE TREATMENT** Charge No. : 230671

Plant : Prince G	Process : FULL CELL	Preserv.Type : CCA	Concentr. 2.56 %
Cylinder : 3	Operator :JEFF	Volume : 1161 C.F.	Moisture : 23.0 %
Specified Net Retention		Date In (d/m/y): 07/07/2023	TIME IN : 8.05
Assay: 0.00 pcf	Gauge: 0.00 pcf	Date Out (d/m/y): 07/07/2023	TIME OUT : 13.12

Welco
#1065

Order #	Customer	Product	Species	Size/Class	Length	Pieces/FBM	Cubic Feet
	BCH	POLES	WRC	2	50	15	681.0
	WELCO	TIMBERS	FIR	3X12	20	96	480.0

Treating Cycle Summary

Operation	Start	End	Press./Vac.	Temper.(°F)	Run Time
Initial Vacuum	8.05	8.62	21.8 "hg	71	0.50
Filling	8.62	8.83	21.5 "hg	71	0.17
Soaking	8.83	8.83	13.3 "hg	71	0.00
Vac Release	8.83	8.85	1 "hg	71	0.02
Pressure	8.85	11.85	143 PSI	72	3.01
Press. Release	11.85	11.90	129. PSI	72	0.05
Pump Out	11.90	12.33	0.0 PSI	72	0.44
Final Vacuum	12.33	12.83	-10. "hg	73	0.50
Vac Release	12.83	12.92	0 "hg	74	0.08
Final Strip	12.92	13.12	1 "hg	74	0.20
Down Time	0.05 Hrs		Pause Time		0.12 Hrs
Cycle Running Time					4.96 Hrs
Total Cycle (Cycle Running Time + Pause Time)					5.07 Hrs

Material**Preservative Retention Summary**

Charging Tank Reading	Gauge (FT)	Temper.(°F)	I.Gal.@ °F
Start A	13.37	70	14768
End Fill for Pressure B	5.34	71	5897
End Pressure Period C	4.09	71	4519
End Final Drain D	12.19	71	13469

Absorption & Retentions		Imp.Gals	Pounds	LBS/CU.FT
Gross Retention	(B-C)	1378	378	0.33
Net Retention	(A-D)	1299	357	0.31

Operator : _____ Foreman : _____

RECORD OF PRESSURE TREATMENT Charge No. : 230671

Plant : Prince G	Process : FIXATION	Preserv.Type : CCA	Concentr. : 2.56 %
Cylinder : 3		Volume : 1161 C.F.	Moisture : 23.0 %
Specified Net Retention			
Assay: 0.00 pcf	Gauge: 0.00 pcf	Date In (d/m/y): 07/ 07/ 2023	TIME IN : 13.77
		Date Out (d/m/y): 07/ 07/ 2023	TIME OUT: 19.62

Treating Cycle Summary					
Operation	Start	End		Temper.(°F)	Run Time
Heating	13.77	14.03		150	0.26
Fixation	14.03	19.62		171	5.59
Down Time	0.64 Hrs		Pause Time		0.00 Hrs
Cycle Running Time					5.85 Hrs
Total Cycle (Cycle Running Time + Pause Time)					5.85 Hrs

Time (Hrs)	Temper. (°F)
15.03	175
16.03	165
17.03	167
18.03	169
19.03	171

Operator : _____ Foreman : _____



Prince George Operation
7177 Pacific St, Prince George, BC
250-561-1161

Penetration Report

Customer/Order#: WELCO
Charge#: 23-0671
Product/Commodity: TIMBERS
Standard/Spec: CUSTOMER SPEC

Preservative: CCA
Ref#:
Species: HEM
Production Date: JULY/07/2023

QTY	Class (pole) / Dimension (in.)	Length (ft.)
96	3X12	20

QTY	Class (pole) / Dimension (in.)	Length (ft.)

Core#	Penetration (mm)	Sapwood (mm)	Conformance
1	15	15	100%
2	10	10	100%
3	10	10	100%
4	12	12	100%
5	10	10	100%
6	16	16	100%
7	11	11	100%
8	10	10	100%
9	12	12	100%
10	14	14	100%
11	13	13	100%
12	10	10	100%
13	16	16	100%
14	13	13	100%
15	13	13	100%
16	10	10	100%
17	12	12	100%
18	16	16	100%
19	10	10	100%
20	11	11	100%

Core#	Penetration (mm)	Sapwood (mm)	Conformance
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

Penetration (mm): 10 16
Min Max
MC (%):
Low High

Sapwood (mm): 10 16
Min Max
% Conformance: 100%

Comments:

DOA: JULY/11/2023
QC: Norm wood/Mark whalley
INSP: DAN SPIERS

Print

Signature

OXFORD LAB-X 2500

POLES ANALYSIS

11/7/2023 16:54

Calibration title: CCA Poles-pcf

SAMPLE ID: 230672

DENSITY = 25.7 pcf

Bit diameter = 0.196 in

Boring length = 12.00 in

Mass = 2.44 g

	%WT OXIDES	%BALANCE
CR03 =	1.892 %	48.0
CU0 =	0.712 %	18.1
AS205 =	1.335 %	33.9
TOTAL =	3.938 %WT	100.0

RETENTION

CR03 = 0.486 pcf

CU0 = 0.183 pcf

AS205 = 0.343 pcf

TOTAL= 1.011 pcf



RECORD OF PRESSURE TREATMENT Charge No. : 230672

Plant : Prince G	Process : FULL CELL	Preserv.Type : CCA	Concentr. 2.52 %
Cylinder : 3	Operator :JEFF	Volume : 1065 C.F.	Moisture : 23.0 %
Specified Net Retention			
Assay: 0.00 pcf	Gauge: 0.00 pcf	Date In (d/m/y): 07/ 07/ 2023	TIME IN : 15.07
		Date Out (d/m/y): 07/ 07/ 2023	TIME OUT : 21.03

*Welco
1065.*

Order #	Customer	Product	Species	Size/Class	Length	Pieces/FBM	Cubic Feet
	BCH	POLES	WRC	2	50	1	45.0
	BCH	POLES	WRC	3	50	15	588.0
	WELCO	TIMBERS	DF	3X12	16	48	192.0
	WELCO	TIMBERS	DF	3X12	20	48	240.0

Treating Cycle Summary					
Operation	Start	End	Press./Vac.	Temper.(°F)	Run Time
Initial Vacuum	15.07	15.57	20.8 "hg	79	0.50
Filling	15.57	15.75	20.5 "hg	79	0.18
Soaking	15.75	15.75	12.5 "hg	74	0.00
Vac Release	15.75	15.77	2 "hg	74	0.02
Pressure	15.77	19.75	144 PSI	74	3.01
Press. Release	19.75	19.78	130. PSI	74	0.04
Pump Out	19.78	20.23	0.0 PSI	74	0.46
Final Vacuum	20.23	20.73	-10. "hg	76	0.50
Vac Release	20.73	20.82	1 "hg	76	0.08
Final Strip	20.82	21.03	1 "hg	76	0.20
Down Time	0.12 Hrs		Pause Time		0.98 Hrs
Cycle Running Time					4.98 Hrs
Total Cycle (Cycle Running Time + Pause Time)					5.96 Hrs

Material

Preservative Retention Summary			
Charging Tank Reading	Gauge (FT)	Temper.(°F)	I.Gal.@ °F
Start A	13.38	70	14788
End Fill for Pressure B	4.91	71	5429
End Pressure Period C	3.82	73	4218
End Final Drain D	12.28	73	13567

Absorption & Retentions		Imp.Gals	Pounds	LBS/CU.FT
Gross Retention	(B-C)	1211	327	0.31
Net Retention	(A-D)	1220	330	0.31

Operator : _____ Foreman : _____

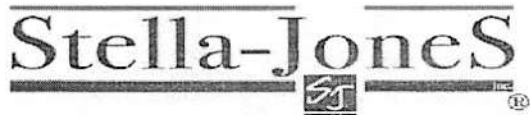
RECORD OF PRESSURE TREATMENT Charge No. : 230672

Plant : Prince G	Process : FIXATION	Preserv.Type : CCA	Concentr. 2.52 %
Cylinder : 3		Volume : 1065 C.F.	Moisture : 23.0 %
Specified Net Retention			
Assay: 0.00 pcf	Gauge: 0.00 pcf	Date In (d/m/y): 07/07/2023	TIME IN : 21.90
		Date Out (d/m/y): 08/07/2023	TIME OUT : 3.88

Treating Cycle Summary					
Operation	Start	End	Temper.(°F)		Run Time
Heating	21.90	22.28		150	0.39
Fixation	22.28	3.88		177	5.59
Down Time	2.26 Hrs		Pause Time		0.00 Hrs
Cycle Running Time					5.98 Hrs
Total Cycle (Cycle Running Time + Pause Time)					5.98 Hrs

Time (Hrs)	Temper. (°F)
23.28	172
0.28	167
1.28	166
2.28	171
3.28	176

Operator : _____ Foreman : _____



Prince George Operation
7177 Pacific St, Prince George, BC
250-561-1161

Penetration Report

Customer/Order#: WELCO MOF
Charge#: 23-0672
Product/Commodity: TIMBERS
Standard/Spec: CUSTOMER SPEC

Preservative: CCA
Ref#:
Species: HEM
Production Date: JULY/07/2023

QTY	Class (pole) / Dimension (in.)	Length (ft.)
48	3X12	16
48	3X12	20

QTY	Class (pole) / Dimension (in.)	Length (ft.)

Core#	Penetration (mm)	Sapwood (mm)	Conformance
1	18	18	100%
2	12	12	100%
3	15	15	100%
4	13	13	100%
5	13	13	100%
6	10	10	100%
7	14	14	100%
8	12	12	100%
9	11	11	100%
10	10	10	100%
11	15	15	100%
12	14	14	100%
13	10	10	100%
14	12	12	100%
15	12	12	100%
16	17	17	100%
17	10	10	100%
18	12	12	100%
19	16	16	100%
20	10	10	100%

Core#	Penetration (mm)	Sapwood (mm)	Conformance
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

Penetration (mm): 10 18
Min Max
MC (%):
Low High

Sapwood (mm): 10 18
Min Max
% Conformance: 100%

Comments:

DOA: JULY/11/2023
QC: Norm wood/Mark whalley
INSP: DAN SPIERS

Print


Signature

OXFORD LAB-X 2500

POLES ANALYSIS

11/7/2023 15:17

Calibration title: CCA Poles-pcf

SAMPLE ID: 230673

DENSITY = 25.6 pcf

Bit diameter = 0.196 in

Boring length = 12.00 in

Mass = 2.43 g

%WT OXIDES	%BALANCE
------------	----------

CR03 = 1.738 %	48.3
----------------	------

CUO = 0.658 %	18.3
---------------	------

AS205 = 1.199 %	33.3
-----------------	------

TOTAL = 3.596 %WT	100.0
-------------------	-------

RETENTION

CR03 = 0.444 pcf

CUO = 0.168 pcf

AS205 = 0.307 pcf

TOTAL= 0.919 pcf



RECORD OF PRESSURE TREATMENT Charge No. : 230673

Plant : Prince G	Process : FULL CELL	Preserv.Type : CCA	Concentr. 2.68 %
Cylinder : 3	Operator : EARL	Volume : 972 C.F.	Moisture : 23.0 %
Specified Net Retention		Date In (d/m/y): 07/ 07/ 2023	TIME IN : 23.58
Assay: 0.00 pcf	Gauge: 0.00 pcf	Date Out (d/m/y): 08/ 07/ 2023	TIME OUT: 4.60

Welco
#1065

Order #	Customer	Product	Species	Size/Class	Length	Pieces/FBM	Cubic Feet
	BCH	POLES	WRC	3	50	15	588.0
	WELCO	TIMBERS	HEM	3X12	16	96	384.0

Treating Cycle Summary

Operation	Start	End	Press./Vac.	Temper.(°F)	Run Time
Initial Vacuum	23.58	0.08	21.3 "hg	76	0.50
Filling	0.08	0.28	21.0 "hg	75	0.19
Soaking	0.28	0.28	13.4 "hg	73	0.00
Vac Release	0.28	0.30	1 "hg	73	0.02
Pressure	0.30	3.30	143 PSI	73	3.01
Press. Release	3.30	03.33	130. PSI	73	0.04
Pump Out	3.33	3.82	0.0 PSI	73	0.47
Final Vacuum	3.82	4.32	-10. "hg	73	0.50
Vac Release	4.32	04.40	0 "hg	72	0.09
Final Strip	4.40	04.60	1 "hg	73	0.19
Down Time	0.40 Hrs		Pause Time		0.00 Hrs
Cycle Running Time					5.00 Hrs
Total Cycle (Cycle Running Time + Pause Time)					5.00 Hrs

Material

Preservative Retention Summary

Charging Tank Reading	Gauge (FT)	Temper.(°F)	I.Gal.@ °F
Start A	13.36	71	14763
End Fill for Pressure B	4.38	72	4839
End Pressure Period C	3.29	72	3633
End Final Drain D	12.26	73	13542

Absorption & Retentions	Imp.Gals	Pounds	LBS/CU.FT
Gross Retention (B-C)	1206	346	0.36
Net Retention (A-D)	1220	351	0.36

Operator : _____ Foreman : _____

RECORD OF PRESSURE TREATMENT Charge No. : 230673

Plant : Prince G	Process : FIXATION	Preserv.Type : CCA	Concentr. 2.68 %
Cylinder : 3		Volume : 972 C.F.	Moisture : 23.0 %
Specified Net Retention			
Assay: 0.00 pcf	Gauge: 0.00 pcf	Date In (d/m/y): 08/ 07/ 2023	TIME IN : 6.97
		Date Out (d/m/y): 08/ 07/ 2023	TIME OUT : 13.05

Treating Cycle Summary					
Operation	Start	End		Temper.(°F)	Run Time
Heating	6.97	7.37		151	0.40
Fixation	7.37	13.05		179	5.50
Down Time	0.15 Hrs		Pause Time		0.17 Hrs
Cycle Running Time					5.90 Hrs
Total Cycle (Cycle Running Time + Pause Time)					6.07 Hrs

Time (Hrs)	Temper. (°F)
8.37	177
9.37	167
10.37	172
11.37	176
12.55	178

Operator : _____ Foreman : _____



Prince George Operation
7177 Pacific St, Prince George, BC
250-561-1161

Penetration Report

Customer/Order#: WELCO
Charge#: 23-0673
Product/Commodity: TIMBERS
Standard/Spec: CUSTOMER SPEC

Preservative: CCA
Ref#:
Species: HEM
Production Date: JULY/07/2023

QTY	Class (pole) / Dimension (in.)	Length (ft.)
96	3X12	16

QTY	Class (pole) / Dimension (in.)	Length (ft.)

Core#	Penetration (mm)	Sapwood (mm)	Conformance
1	7	15	100%
2	10	10	100%
3	10	10	100%
4	15	12	100%
5	13	10	100%
6	12	16	100%
7	12	11	100%
8	12	10	100%
9	13	12	100%
10	10	14	100%
11	12	13	100%
12	10	10	100%
13	11	16	100%
14	14	13	100%
15	13	13	100%
16	12	10	100%
17	10	12	100%
18	10	16	100%
19	11	10	100%
20	14	11	100%

Core#	Penetration (mm)	Sapwood (mm)	Conformance
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

Penetration (mm): 7 15
Min Max
MC (%):
Low High

Sapwood (mm): 7 15
Min Max
% Conformance: 100%

Comments:

DOA: JULY/11/2023
QC: Norm wood/Mark whalley
INSP: DAN SPIERS

Print

Signature

OXFORD LAB-X 2500

POLES ANALYSIS

10/7/2023 16:57

Calibration title: CCA Poles-pcf

SAMPLE ID: 230675

DENSITY = 23.5 pcf

Bit diameter = 0.196 in

Boring length = 12.00 in

Mass = 2.23 g

%WT OXIDES	%BALANCE
------------	----------

CR03 = 1.991 %	46.6
----------------	------

CU0 = 0.806 %	18.8
---------------	------

AS205 = 1.478 %	34.6
-----------------	------

TOTAL = 4.275 %WT	100.0
-------------------	-------

RETENTION

CR03 = 0.467 pcf

CU0 = 0.189 pcf

AS205 = 0.347 pcf

TOTAL= 1.003 pcf



RECORD OF PRESSURE TREATMENT Charge No. : 230675					
Plant : Prince G.	Process : FULL CELL	Preserv.Type : CCA	Concentr. 2.40 %		
Cylinder : 3	Operator :JEFF	Volume : 1020 C.F.	Moisture : 23.0 %		
Specified Net Retention		Date In (d/m/y): 08/ 07/ 2023	TIME IN : 8.78		
Assay: 0.00 pcf	Gauge: 0.00 pcf	Date Out (d/m/y): 08/ 07/ 2023	TIME OUT: 13.98		

Welco
1065

Order #	Customer	Product	Species	Size/Class	Length	Pieces/FBM	Cubic Feet
	WELCO	TIMBERS	DF	3X12	20	48	240.0
	WELCO	TIMBERS	FIR	3X12	16	48	192.0
	BCH	POLES	WRC	3	50	15	588.0

Treating Cycle Summary					
Operation	Start	End	Press./Vac.	Temper.(°F)	Run Time
Initial Vacuum	8.78	9.28	21.4 "hg	72	0.50
Filling	9.28	9.45	21.1 "hg	72	0.18
Soaking	9.45	9.45	13.1 "hg	72	0.00
Vac Release	9.45	9.48	1 "hg	72	0.02
Pressure	9.48	12.68	145 PSI	74	3.01
Press. Release	12.68	12.73	129. PSI	74	0.04
Pump Out	12.73	13.20	0.0 PSI	74	0.46
Final Vacuum	13.20	13.70	-10. "hg	76	0.50
Vac Release	13.70	13.78	1 "hg	77	0.09
Final Strip	13.78	13.98	1 "hg	77	0.21
Down Time	0.40 Hrs		Pause Time		0.21 Hrs
Cycle Running Time					5.00 Hrs
Total Cycle (Cycle Running Time + Pause Time)					5.21 Hrs

Material

Preservative Retention Summary			
Charging Tank Reading	Gauge (FT)	Temper.(°F)	I.Gal.@ °F
Start A	13.36	70	14763
End Fill for Pressure B	4.74	73	5242
End Pressure Period C	3.65	73	4031
End Final Drain D	12.30	73	13592

Absorption & Retentions		Imp.Gals	Pounds	LBS/CU.FT
Gross Retention	(B-C)	1211	311	0.31
Net Retention	(A-D)	1171	301	0.30

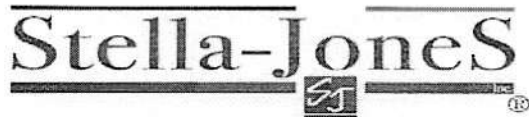
Operator : _____ Foreman : _____

RECORD OF PRESSURE TREATMENT Charge No. : 230675					
Plant : Prince G	Process : FIXATION		Preserv.Type : CCA		Concentr. 2.40 %
Cylinder : 3			Volume : 1020 C.F.	Moisture : 23.0 %	
Specified Net Retention			Date In (d/m/y): 08/07/2023	TIME IN : 15.78	
Assay: 0.00 pcf	Gauge: 0.00 pcf		Date Out (d/m/y): 09/07/2023	TIME OUT : 0.55	

Treating Cycle Summary					
Operation	Start	End	Temper.(°F)	Run Time	
Heating	15.78	16.13		150	0.34
Fixation	16.13	0.55		176	8.42
Down Time	2.73 Hrs		Pause Time		0.00 Hrs
Cycle Running Time					8.76 Hrs
Total Cycle (Cycle Running Time + Pause Time)					8.76 Hrs

Time (Hrs)	Temper. (°F)
17.13	179
18.13	166
19.13	169
20.13	174
21.13	175

Operator : _____ Foreman : _____



Prince George Operation
7177 Pacific St, Prince George, BC
250-561-1161

Penetration Report

Customer/Order#: WELCO
Charge#: 23-0675
Product/Commodity: POLES
Standard/Spec: CUST SPEC

Preservative: CCA
Ref#:
Species: HEM
Production Date: 8/7/2023

QTY	Class (pole) / Dimension (in.)	Length (ft.)
48	3X12	20
48	3X12	16

QTY	Class (pole) / Dimension (in.)	Length (ft.)

Core#	Penetration (mm)	Sapwood (mm)	Conformance
1	23	23	100%
2	37	37	100%
3	24	24	100%
4	25	25	100%
5	22	22	100%
6	15	15	100%
7	24	24	100%
8	19	19	100%
9	13	13	100%
10	21	21	100%
11	26	26	100%
12	33	33	100%
13	30	30	100%
14	48	48	100%
15	32	32	100%
16	16	16	100%
17	18	18	100%
18	16	16	100%
19	14	14	100%
20	14	14	100%

Core#	Penetration (mm)	Sapwood (mm)	Conformance
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

Penetration (mm): 13 48
Min Max
MC (%):
Low High

Sapwood (mm): 13 48
Min Max
% Conformance: 100%

Comments:

DOA: July/10/2023
QC: Norm Wood/Brayden Smith
INSP: Dan Spiers

Print


Signature



7177 Pacific Street, Prince George, BC V2N 5S4

Phone: (250) 561-1161

Certificate of Treatment

This is to certify that the material described below has been pressure treated to the requirements of CSA Standards and the Best Management Practices.

Customer Name: WELCO LUMBER CORP.
Address 4445 LOUGHEED HWY.SUITE 1001
BURNABY BC V5C0E4 CA.

Contact:

Customer's Order #: LAC-1065

SJI Order#: 20066296

Commodity: TIMBERS

Species: HEMLOCK

Quantity	Dimensions	Length (in feet)
48	3X12	20
48	3X12	16

Treating Plant: SJI Prince George
Preservative: CCA
Charge # 23-0675
Net Retention: 1.001 PCF
Shipping Plant: SJI Prince George
Date of Issuance: JULY/10/2023

Norm Wood/Brayden Smith
Quality Control Co-ordinator

Ryan Booth
Plant Manager

OXFORD LAB-X 2500

POLES ANALYSIS

10/7/2023 17:08

Calibration title: CCA Poles-pcf

SAMPLE ID: 230676

DENSITY = 22.1 pcf

Bit diameter = 0.196 in

Boring length = 12.00 in

Mass = 2.10 g

%WT OXIDES	%BALANCE
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CR03 = 2.052 %	48.0
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CU0 = 0.778 %	18.2
---------------	------

AS205 = 1.445 %	33.8
-----------------	------

TOTAL = 4.275 %WT	100.0
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RETENTION

CR03 = 0.453 pcf

CU0 = 0.172 pcf

AS205 = 0.319 pcf

TOTAL= 0.945 pcf

RECORD OF PRESSURE TREATMENT Charge No. : 230676

Plant : Prince George	Process : FULL CELL	Preserv.Type : CCA	Concentr. 2.76 %
Cylinder : 3	Operator :JEFF	Volume : 1011 C.F.	Moisture : 23.0 %
Specified Net Retention		Date In (d/m/y): 08/ 07/ 2023	TIME IN : 17.58
Assay: 0.00 pcf	Gauge: 0.00 pcf	Date Out (d/m/y): 09/ 07/ 2023	TIME OUT : 2.58

Welco
#1065. + 1068
3x12x16 - 48 pcs.
10x10x20
6x12x24

Order #	Customer	Product	Species	Size/Class	Length	Pieces/FBM	Cubic Feet
	BCH	POLES	WRC	3	50	9	353.0
	BCH	POLES	WRC	1	50	5	259.0
	WELCO	TIMBERS	FIR	3X12	16	48	192.0
	MOF	TIMBERS	FIR	10X10	20	8	111.0
	MOF	TIMBERS	FIR	6X12	24	8	96.0

Treating Cycle Summary					
Operation	Start	End	Press./Vac.	Temper.(°F)	Run Time
Initial Vacuum	17.58	18.08	20.5 "hg	84	0.50
Filling	18.08	18.27	20.2 "hg	85	0.19
Soaking	18.27	18.27	12.5 "hg	78	0.00
Vac Release	18.27	18.28	2 "hg	78	0.02
Pressure	18.28	0.28	144 PSI	77	6.01
Press. Release	0.28	00.33	130. PSI	76	0.04
Pump Out	0.33	0.80	0.0 PSI	76	0.47
Final Vacuum	0.80	2.30	-10. "hg	76	1.50
Vac Release	2.30	02.38	0 "hg	76	0.09
Final Strip	2.38	02.58	1 "hg	76	0.20
Down Time	0.84 Hrs		Pause Time		0.00 Hrs
Cycle Running Time					9.00 Hrs
Total Cycle (Cycle Running Time + Pause Time)					9.00 Hrs

Material

Preservative Retention Summary			
Charging Tank Reading	Gauge (FT)	Temper.(°F)	I.Gal.@ °F
Start A	13.36	70	14758
End Fill for Pressure B	4.57	74	5045
End Pressure Period C	3.65	75	4031
End Final Drain D	12.48	75	13789

Absorption & Retentions		Imp.Gals	Pounds	LBS/CU.FT
Gross Retention (B-C)		1014	300	0.30
Net Retention (A-D)		969	287	0.28

Operator : _____ Foreman : _____

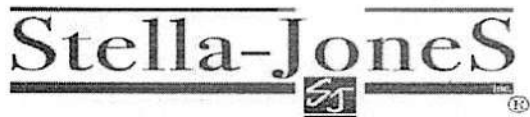
RECORD OF PRESSURE TREATMENT Charge No. : 230676

Plant : Prince G	Process : FIXATION	Preserv.Type : CCA	Concentr. 2.76 %
Cylinder : 3		Volume : 1011 C.F.	Moisture : 23.0 %
Specified Net Retention			
Assay: 0.00 pcf	Gauge: 0.00 pcf	Date In (d/m/y): 09/ 07/ 2023	TIME IN : 6.78
		Date Out (d/m/y): 09/ 07/ 2023	TIME OUT: 12.63

Treating Cycle Summary					
Operation	Start	End	Temper.(°F)	Run Time	
Heating	6.78	7.13	151	0.36	
Fixation	7.13	12.63	178	5.50	
Down Time	0.96 Hrs		Pause Time		0.00 Hrs
Cycle Running Time					5.86 Hrs
Total Cycle (Cycle Running Time + Pause Time)					5.86 Hrs

Time (Hrs)	Temper. (°F)
8.13	176
9.13	170
10.13	172
11.13	175
12.13	177

Operator : _____ Foreman : _____



Prince George Operation
7177 Pacific St, Prince George, BC
250-561-1161

Penetration Report

Customer/Order#: WELCO
Charge#: 23-0676
Product/Commodity: POLES
Standard/Spec: 423-2000

Preservative: CCA
Ref#:
Species: D FIR
Production Date: 9/7/2023

QTY	Class (pole) / Dimension (in.)	Length (ft.)
48	3X12	16
8	10X10	20
8	6X12	24

QTY	Class (pole) / Dimension (in.)	Length (ft.)

Core#	Penetration (mm)	Sapwood (mm)	Conformance
1	13	13	100%
2	35	35	100%
3	16	16	100%
4	42	42	100%
5	34	34	100%
6	32	32	100%
7	33	33	100%
8	28	28	100%
9	37	37	100%
10	32	32	100%
11	21	21	100%
12	26	26	100%
13	15	15	100%
14	25	25	100%
15	15	15	100%
16	16	16	100%
17	13	13	100%
18	13	13	100%
19	15	15	100%
20	18	18	100%

Core#	Penetration (mm)	Sapwood (mm)	Conformance
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

Penetration (mm): 13 42
Min Max
MC (%):
Low High

Sapwood (mm): 13 42
Min Max
% Conformance: 100%

Comments:

DOA: July/10/2023
QC: Norm Wood/Brayden Smith
INSP: Dan Spiers

Print

Signature

OXFORD LAB-X 2500

POLES ANALYSIS

10/7/2023 17:24

Calibration title: CCA Poles-pcf

SAMPLE ID: 230677

DENSITY = 23.3 pcf

Bit diameter = 0.196 in

Boring length = 12.00 in

Mass = 2.21 g

	%WT OXIDES	%BALANCE
--	------------	----------

CR03 =	1.484 %	48.3
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CU0 =	0.548 %	17.8
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AS205 =	1.040 %	33.8
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TOTAL =	3.071 %WT	100.0
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RETENTION

CR03 = 0.345 pcf

CU0 = 0.127 pcf

AS205 = 0.242 pcf

TOTAL= 0.714 pcf

RECORD OF PRESSURE TREATMENT Charge No. : 230677

Plant : Prince G.	Process : FULL CELL	Preserv.Type : CCA	Concentr. 2.49 %
Cylinder : 3	Operator :JEFF	Volume : 1104 C.F.	Moisture : 23.0 %
Specified Net Retention			
Assay: 0.00 pcf	Gauge: 0.00 pcf	Date In (d/m/y): 09/ 07/ 2023	TIME IN : 9.58
		Date Out (d/m/y): 09/ 07/ 2023	TIME OUT : 14.50

Welco
1065

Order #	Customer	Product	Species	Size/Class	Length	Pieces/FBM	Cubic Feet
	BCH	POLES	WRC	1	50	13	672.0
	WELCO	TIMBERS	FIR	3X12	20	48	240.0
	WELCO	TIMBERS	FIR	3X12	16	48	192.0

Treating Cycle Summary					
Operation	Start	End	Press./Vac.	Temper.(°F)	Run Time
Initial Vacuum	9.58	10.08	20.6 "hg	73	0.50
Filling	10.08	10.27	20.4 "hg	73	0.18
Soaking	10.27	10.27	12.5 "hg	73	0.00
Vac Release	10.27	10.28	1 "hg	74	0.02
Pressure	10.28	13.28	143 PSI	76	3.01
Press. Release	13.28	13.32	129. PSI	76	0.04
Pump Out	13.32	13.75	0.0 PSI	76	0.44
Final Vacuum	13.75	14.25	-9.7 "hg	77	0.50
Vac Release	14.25	14.33	1 "hg	78	0.08
Final Strip	14.33	14.50	1 "hg	78	0.16
Down Time	0.24 Hrs		Pause Time		0.00 Hrs
Cycle Running Time					4.92 Hrs
Total Cycle (Cycle Running Time + Pause Time)					4.92 Hrs

Material

Preservative Retention Summary				
Charging Tank Reading	Gauge (FT)	Temper.(°F)	I.Gal.@ °F	
Start A	13.37	72	14773	
End Fill for Pressure B	4.92	75	5434	
End Pressure Period C	3.74	75	4130	
End Final Drain D	12.17	75	13444	

Absorption & Retentions		Imp.Gals	Pounds	LBS/CU.FT
Gross Retention (B-C)		1304	348	0.32
Net Retention (A-D)		1329	355	0.32

Operator : _____ Foreman : _____

RECORD OF PRESSURE TREATMENT Charge No. : 230677

Plant : Prince G	Process : FIXATION	Preserv.Type : CCA	Concentr. 2.49 %
Cylinder : 3		Volume : 1104 C.F.	Moisture : 23.0 %
Specified Net Retention			
Assay: 0.00 pcf	Gauge: 0.00 pcf	Date In (d/m/y): 09/ 07/ 2023	TIME IN : 15.27
		Date Out (d/m/y): 09/ 07/ 2023	TIME OUT : 21.33

Treating Cycle Summary					
Operation	Start	End	Temper.(°F)	Run Time	
Heating	15.27	15.58		151	0.32
Fixation	15.58	21.33		174	5.76
Down Time	0.00 Hrs		Pause Time		0.00 Hrs
Cycle Running Time					6.07 Hrs
Total Cycle (Cycle Running Time + Pause Time)					6.07 Hrs

Time (Hrs)	Temper. (°F)
16.58	178
17.58	168
18.58	168
19.58	171
20.58	173

Operator : _____ Foreman : _____



Prince George Operation
7177 Pacific St, Prince George, BC
250-561-1161

Penetration Report

Customer/Order#: Welco
Charge#: 23-0677
Product/Commodity: POLES
Standard/Spec: 423-2000

Preservative: CCA
Ref#:
Species: CEDAR
Production Date: 9/7/2023

QTY	Class (pole) / Dimension (in.)	Length (ft.)
48	3x12	20
48	3x12	16

QTY	Class (pole) / Dimension (in.)	Length (ft.)

Core#	Penetration (mm)	Sapwood (mm)	Conformance
1	34	34	100%
2	26	26	100%
3	20	20	100%
4	25	25	100%
5	20	20	100%
6	35	35	100%
7	13	13	100%
8	14	14	100%
9	15	15	100%
10	13	13	100%
11	13	13	100%
12	13	13	100%
13	14	14	100%
14	13	13	100%
15	13	13	100%
16	14	14	100%
17	15	15	100%
18	16	16	100%
19	15	15	100%
20	14	14	100%

Core#	Penetration (mm)	Sapwood (mm)	Conformance
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

Penetration (mm): 13 35
Min Max
MC (%):
Low High

Sapwood (mm): 13 35
Min Max
% Conformance: 100%

Comments:

DOA: July/10/2023
QC: Norm Wood/Brayden Smith
INSP: Dan Spiers

Print

Signature

OXFORD LAB-X 2500

POLES ANALYSIS

11/7/2023 15:26

Calibration title: CCA Poles-pcf

SAMPLE ID: 230679

DENSITY = 24.9 pcf

Bit diameter = 0.196 in

Boring length = 12.00 in

Mass = 2.37 g

%WT OXIDES	%BALANCE
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CR03 = 1.778 %	48.9
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CU0 = 0.636 %	17.5
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AS205 = 1.224 %	33.7
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TOTAL = 3.638 %WT	100.0
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RETENTION

CR03 = 0.443 pcf

CU0 = 0.159 pcf

AS205 = 0.305 pcf

TOTAL= 0.907 pcf



RECORD OF PRESSURE TREATMENT Charge No. : 230679				
Plant : Prince George	Process : FULL CELL	Preserv.Type : CCA	Concentr. : 2.55 %	
Cylinder : 3	Operator : JEFF	Volume : 1032 C.F.	Moisture : 23.0 %	
Specified Net Retention		Date In (d/m/y): 09/ 07/ 2023	TIME IN : 16.10	
Assay: 0.00 pcf Gauge: 0.00 pcf		Date Out (d/m/y): 09/ 07/ 2023	TIME OUT : 21.25	

Welco
#1065

Order #	Customer	Product	Species	Size/Class	Length	Pieces/FBM	Cubic Feet
	BCH	POLES	WRC	1	50	13	672.0
	WELCO	TIMBERS	FIR	3X12	20	48	240.0
	WELCO	TIMBERS	FIR	3X12	16	24	120.0

Treating Cycle Summary					
Operation	Start	End	Press./Vac.	Temper.(°F)	Run Time
Initial Vacuum	16.10	16.60	20.5 "hg	83	0.50
Filling	16.60	16.78	20.2 "hg	83	0.19
Soaking	16.78	16.78	12.5 "hg	78	0.00
Vac Release	16.78	16.80	2 "hg	78	0.02
Pressure	16.80	19.82	144 PSI	77	3.01
Press. Release	19.82	19.85	129. PSI	77	0.04
Pump Out	19.85	20.32	0.0 PSI	77	0.47
Final Vacuum	20.32	20.82	-10. "hg	78	0.50
Vac Release	20.82	20.92	0 "hg	78	0.09
Final Strip	20.92	21.25	1 "hg	78	0.34
Down Time	0.05 Hrs		Pause Time		0.00 Hrs
Cycle Running Time					5.16 Hrs
Total Cycle (Cycle Running Time + Pause Time)					5.16 Hrs

Material

Preservative Retention Summary				
Charging Tank Reading	Gauge (FT)	Temper.(°F)	I.Gal.@ °F	
Start A	13.37	74	14773	
End Fill for Pressure B	4.33	74	4785	
End Pressure Period C	3.34	76	3687	
End Final Drain D	12.39	76	13690	

Absorption & Retentions		Imp.Gals	Pounds	LBS/CU.FT
Gross Retention	(B-C)	1097	300	0.29
Net Retention	(A-D)	1083	296	0.29

Operator : _____ Foreman : _____

RECORD OF PRESSURE TREATMENT Charge No. : 230679

Plant : Prince G	Process : FIXATION	Preserv.Type : CCA	Concentr. 2.55 %
Cylinder : 3		Volume : 1032 C.F.	Moisture : 23.0 %
Specified Net Retention			
Assay: 0.00 pcf	Gauge: 0.00 pcf	Date In (d/m/y): 10/07/2023	TIME IN : 8.07
		Date Out (d/m/y): 10/07/2023	TIME OUT : 13.92

Treating Cycle Summary				
Operation	Start	End	Temper.(°F)	Run Time
Heating	8.07	8.42	150	0.35
Fixation	8.42	13.92	177	5.50
Down Time	10.72 Hrs		Pause Time	0.00 Hrs
Cycle Running Time				5.85 Hrs
Total Cycle (Cycle Running Time + Pause Time)				5.85 Hrs

Time (Hrs)	Temper. (°F)
9.42	174
10.42	168
11.42	170
12.42	174
13.42	177

Operator : _____ Foreman : _____



Prince George Operation
7177 Pacific St, Prince George, BC
250-561-1161

Penetration Report

Customer/Order#: WELCO
Charge#: 23-0679
Product/Commodity: TIMBERS
Standard/Spec: CUSTOMER SPEC

Preservative: CCA
Ref#:
Species: HEM
Production Date: JULY/09/2023

QTY	Class (pole) / Dimension (in.)	Length (ft.)
48	3X12	20
24	3X12	16

QTY	Class (pole) / Dimension (in.)	Length (ft.)

Core#	Penetration (mm)	Sapwood (mm)	Conformance
1	11	11	100%
2	12	12	100%
3	12	12	100%
4	10	10	100%
5	12	12	100%
6	11	11	100%
7	10	10	100%
8	10	10	100%
9	10	10	100%
10	14	14	100%
11	18	18	100%
12	11	11	100%
13	13	13	100%
14	11	11	100%
15	10	10	100%
16	13	13	100%
17	15	15	100%
18	12	12	100%
19	10	10	100%
20	12	12	100%

Core#	Penetration (mm)	Sapwood (mm)	Conformance
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

Penetration (mm): 10 18
Min Max
MC (%):
Low High

Sapwood (mm): 10 18
Min Max
% Conformance: 100%

Comments:

DOA: JULY/11/2023
QC: Norm wood/Mark whalley
INSP: DAN SPIERS

Print

Signature

B. FORD LAB-X 2500

POLES ANALYSIS

11/7/2023 15:35

Calibration title: CCA Poles-pcf

SAMPLE ID: 230680

DENSITY = 20.5 pcf

Bit diameter = 0.196 in

Boring length = 12.00 in

Mass = 1.95 g

	%WT OXIDES	%BALANCE
CR03 =	2.311 %	47.4
CU0 =	0.893 %	18.3
AS205 =	1.669 %	34.3
TOTAL =	4.873 %WT	100.0

RETENTION

CR03 = 0.474 pcf

CU0 = 0.183 pcf

AS205 = 0.343 pcf

TOTAL= 1.000 pcf



RECORD OF PRESSURE TREATMENT Charge No. : 230680					
Plant : Prince G	Process : FULL CELL	Preserv.Type : CCA	Concentr.	2.56 %	
Cylinder : 3	Operator : MILO	Volume : 937 C.F.	Moisture :	22.0 %	
Specified Net Retention		Date In (d/m/y): 10/ 07/ 2023	TIME IN :	8.32	
Assay: 0.00 pcf	Gauge: 0.00 pcf	Date Out (d/m/y): 10/ 07/ 2023	TIME OUT :	13.38	

Welco
1065

Order #	Customer	Product	Species	Size/Class	Length	Pieces/FBM	Cubic Feet
	BCH	POLE	WRC	1	50	8	414.0
	BCH	POLES	WRC	3	45	6	200.0
	WELCO	TIMBER	FIR	3X12	20	48	240.0
	SJ	POST	WRC	6	10	36	83.2

Treating Cycle Summary					
Operation	Start	End	Press./Vac.	Temper.(°F)	Run Time
Initial Vacuum	8.32	8.82	21.6 "hg	71	0.50
Filling	8.82	9.02	21.4 "hg	73	0.19
Soaking	9.02	9.02	13.3 "hg	73	0.00
Vac Release	9.02	9.03	1 "hg	73	0.02
Pressure	9.03	12.03	144 PSI	75	3.01
Press. Release	12.03	12.08	130. PSI	75	0.05
Pump Out	12.08	12.57	0.0 PSI	75	0.48
Final Vacuum	12.57	13.07	-10. "hg	76	0.50
Vac Release	13.07	13.15	0 "hg	76	0.09
Final Strip	13.15	13.38	1 "hg	76	0.23
Down Time	0.44 Hrs		Pause Time		0.00 Hrs
Cycle Running Time					5.07 Hrs
Total Cycle (Cycle Running Time + Pause Time)					5.07 Hrs

Material

Preservative Retention Summary			
Charging Tank Reading	Gauge (FT)	Temper.(°F)	L.Gal.@ °F
Start A	13.37	73	14778
End Fill for Pressure B	4.33	75	4785
End Pressure Period C	3.22	74	3554
End Final Drain D	12.38	74	13680

Absorption & Retentions		Imp.Gals	Pounds	LBS/CU.FT
Gross Retention	(B-C)	1230	338	0.36
Net Retention	(A-D)	1097	301	0.32

Operator : _____ Foreman : _____



RECORD OF PRESSURE TREATMENT Charge No. : 230680					
Plant : Prince G	Process : FIXATION		Preserv.Type : CCA		Concentr. 2.56 %
Cylinder : 3			Volume : 937 C.F.	Moisture : 22.0 %	
Specified Net Retention					
Assy: 0.00 pcf		Gauge: 0.00 pcf	Date In (d/m/y): 10/07/2023	TIME IN : 14.50	
			Date Out (d/m/y): 10/07/2023	TIME OUT : 20.25	

Treating Cycle Summary					
Operation	Start	End	Temper.(°F)	Run Time	
Heating	14.50	14.75		151	0.25
Fixation	14.75	20.25		172	5.50
Down Time	1.39 Hrs		Pause Time		0.00 Hrs
Cycle Running Time					5.75 Hrs
Total Cycle (Cycle Running Time + Pause Time)					5.75 Hrs

Time (Hrs)	Temper. (°F)
15.75	178
16.75	167
17.75	169
18.75	170
19.75	171

Operator : _____ Foreman : _____



Prince George Operation
7177 Pacific St, Prince George, BC
250-561-1161

Penetration Report

Customer/Order#: WELCO
Charge#: 23-0680
Product/Commodity: TIMBERS
Standard/Spec: CUSTOMER SPEC

Preservative: CCA
Ref#:
Species: HEM
Production Date: JULY/10/2023

QTY	Class (pole) / Dimension (in.)	Length (ft.)
48	3X12	20

QTY	Class (pole) / Dimension (in.)	Length (ft.)

Core#	Penetration (mm)	Sapwood (mm)	Conformance
1	14	11	100%
2	10	12	100%
3	10	12	100%
4	13	10	100%
5	11	12	100%
6	10	11	100%
7	10	10	100%
8	10	10	100%
9	11	10	100%
10	16	14	100%
11	8	18	100%
12	12	11	100%
13	10	13	100%
14	14	11	100%
15	12	10	100%
16	12	13	100%
17	10	15	100%
18	13	12	100%
19	14	10	100%
20	10	12	100%

Core#	Penetration (mm)	Sapwood (mm)	Conformance
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

Penetration (mm): 8 16
Min Max
MC (%):
Low High

Sapwood (mm): 8 16
Min Max
% Conformance: 100%

Comments:

DOA: JULY/11/2023
QC: Norm wood/Mark whalley
INSP: DAN SPIERS

Print

Signature

