

FOSTER WHEELER CORPORATION

LABORATORY TEST RECORD

Sam S B G 159

Recd. for Test _____ Test Specimen No. **998 B-586**
 Tested By _____ Tested **12-8-36** Report Issued _____
 Laboratory File No. _____ Test Checked By _____ Report Issued By **Holder**
 S. O. or Req. No. **B-586** Dept. _____

x **Reduced** SECTION TENSILE TEST

Coupon No.	Dimensions		Area	Total Load, lbs.		Unit Stress Lbs./sq. in.		Character of Failure and Location
	Width	Thickness		Yield	Ultimate	Yield	Ultimate	
	1.504	.832	1.251		85650		68520	broke in weld

FREE BEND TEST

Coupon No.	Gauge Length		Difference	Percent Difference	Remarks
	Before Bending	After Bending			
	23.5	31.0	7.5	32+	no failure

NICK BREAK TEST

Coupon No.	Crystalline Structure (coarse, medium, fine)	Fusion	Porosity	Slag	Remarks

ALL WELD METAL TENSILE TEST

Coupon No.	Diam.	Area	Reduced Diam.	Reduced Area	Percent Red. of Area	Elong. in 2"		Total Load Lbs./sq. in.		Unit Stress Lbs./sq. in.	
						Total	Percent	Yield	Ultimate	Yield	Ultimate
505	200	297	0692	0692	65.3		31	12300	13500	61500	67500

CHARPY IMPACT TEST

Coupon No.	Foot Pounds	Remarks

SPECIFIC GRAVITY TEST

Coupon No.	Specific Gravity
	7.845

XX

SHEAR TEST

Coupon No.	Length of Fillets Failing	Yield		Ultimate		Remarks
		Lbs.	Lbs./sq. in.	Lbs.	Lbs./sq. in.	

x Reduced or full.
 xx Longitudinal or transverse.

159

RECORD OF WELD TEST

Purchaser: Sun Shipbuilding & DD Co.

Test Specimen No. 998

Inspection: B.N.S.I.
A.B.S.
L.R. of L.

Reason for test Job

Welded by Holderith & Swearer

Stamp H S Check No.

Classification of Welder 1

Classification Expires

Dept.

S. O. or Req. No. B-586

Date

Job Name or No. Drum #1

Dept. File No.

Radiograph No.

Radiographic Classification

Material Welded Test Plate

Specification

Type of Weld Horizontal

Size and Type Electrode 1/4" W-23

Thickness of Material 15/16"

Joint Preparation U-Groove

Current 310 Voltage 40

Polarity

Position of specimen when welded Horizontal

No. of passes 7

If Stress relieved, describe.

Preparation of test coupons, Drawing No.

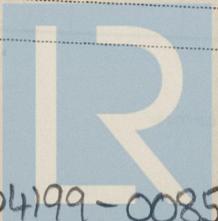
Test specimen inspected and approved by

Remarks: SHELL PLATE BETHLEHEM ~~67886~~ 72 FH61
MAN HEADS (2) LUKENS 19779-17

HYDRO TEST 368 LBS & HAMMER
490.

ALL SEAMS X RAYS SATISFACTORY

John S. Heck



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004194-004199-0085