

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	65.3		31	12300	13500	61500	67500

CHARPY IMPACT TEST

Coupon No.	Foot Pounds	Remarks

SPECIFIC GRAVITY TEST

Coupon No.	
	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.

RECORD OF WELD TEST

Purchaser:
Sun Shipbuilding & DD Co.

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

Test Specimen No. 998
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
Job Name or No. Drum #1
Radiograph No.

Date
Dept. File No.
Radiographic Classification

Material Welded Test Plate
Type of Weld Horizontal
Thickness of Material 15/16"
Current 310 Voltage 40
Position of specimen when welded Horizontal

Specification
Size and Type Electrode 1/4" W-23
Joint Preparation U-Groove
Polarity
No. of passes 7

If Stress relieved, describe.

Preparation of test coupons, Drawing No.

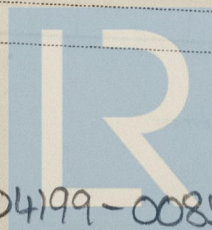
Test specimen inspected and approved by

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

HYDRO TEST 3684AS & HAMMER
490.

ALL SEAMS X RAYS SATISFACTORY

John S. Heck



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Lloyd's Register
Foundation

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