

Steam Drum

FOSTER WHEELER CORPORATION

LABORATORY TEST RECORD

Test Specimen No. **1109 B-581 #2**

Recd. for Test _____

Tested **3/24/37**

Report Issued _____

Tested By _____

Test Checked By **Hanna McLean**

Report Issued By **Holder**

Laboratory File No. _____

S. O. or Req. No. **B-577-84**

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	
	1.021	1.000	1.02		65800		64509	In plate

FREE BEND TEST

Coupon No.	Gauge Length		Difference	Percent Difference	Remarks
	Before Bending	After Bending			
	25	35	10	40 plus	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	336	0887	55.7		21 1/2	11410	13060	57050	65300

CHARPY IMPACT TEST

Coupon No.	Foot Pounds	Remarks

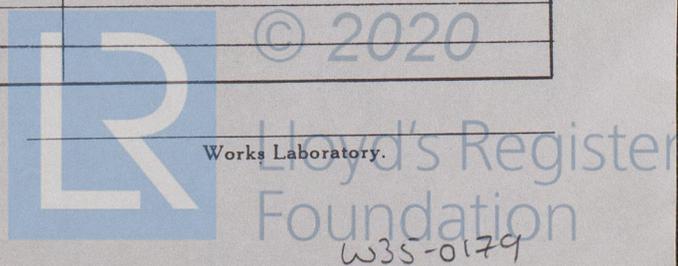
SPECIFIC GRAVITY TEST

Coupon No.	Specific Gravity
	7.841

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:
Federal Shipbuilding & DD Co.
For Standard Oil Co. of N.J.
Tankers

Inspection:
Department of Commerce
Bureau of Nav. & Steamboat Insp.
American Bureau of Shipping

Test Specimen No. 1109
Reason for test Job
Welded by Rogers & Swearer
Stamp R & S Check No. _____
Classification of Welder First Class
Classification Expires _____
Dept. _____

S. O. or Req. No. B 577-84
Job Name or No. B 581 Drum #2 42"
Radiograph No. _____

Date _____
Dept. File No. _____
Radiographic Classification _____

Material Welded B 581 Drum #2 42"
Type of Weld U. Groove
Thickness of Material 1 1/8" thick
Current _____ Voltage _____
Position of specimen when welded horizontal
If Stress relieved, describe _____
Preparation of test coupons, Drawing No. _____
Test specimen inspected and approved by _____

Specification _____
Size and Type Electrode 1/4" W. 23 & 1/4" RD
Joint Preparation U Groove
Polarity A.C.
No. of passes 10

Remarks: s/s Esso Houston N Yk Rpt 38176



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Foundation