

# REPORT ON WATER TUBE BOILERS.

No. 19

TUE. NOV. 25. 1919

Received at London Office

of writing Report 17<sup>th</sup> Feb 1919 When handed in at Local Office 18<sup>th</sup> Feb 1919 Port of Cleveland Ohio.

No. in Survey held at Cleveland Ohio. Date, First Survey 4<sup>th</sup> Sept 18 Last Survey 12<sup>th</sup> Feb 1919

g. Bk. on the W.T. BOILERS Nos 302-1, 302-2, 302-3 for S.S. 'ICELAND' Number of Visits 25 Tons { Gross 5980.47 Net 3413.

ster J. Amherman Built at Chester, Pa By whom built Chester S. B. Co. When built 1919

gines made at Essington, Pa By whom made Westinghouse Elec & Mfg Co When made 1919

ilers made at Cleveland Ohio By whom made The D. Connelly Boiler Co When made 1919

gistered Horse Power \_\_\_\_\_ Owners United States Shipping Board Port belonging to Washington.

## WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Utica Steel Co

etter for Record 1 Date of Approval of plan 9<sup>th</sup> April 1918. Number and Description or Type Boilers 3 Connelly Foster Type W. TUBE Working Pressure 200# Tested by Hydraulic Pressure to 400# Date of Test 14-8-19

of Certificate 363 Can each boiler be worked separately Yes Total Heating Surface of Boilers 9459 #

draught fitted Yes Area of fire grate (coal) in each Boiler 26.25 # Total grate area of boilers in vessel including Hydraulic

in and Auxiliary. No. and type of burners (oil) in each boiler 5 No. and description of safety valves on 2 Spring loaded

h boiler 2 Spring loaded Area of each valve 7.06 Pressure to which they are adjusted 200 lbs

they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler Yes

allest distance between boilers or uptakes and bunkers or woodwork 30" Height of Boiler 11'-6" Width and Length 14'-0" x 13'-7 1/2"

eam Drums:—Number in each boiler one Inside diameter 42" Material of plates Steel Thickness 3/4"

ange of Tensile Strength 58000 # Are drum shell plates welded or flanged No. Description of riveting:—

r. seams LAP SR long seams DBS/TR Diameter of rivet holes in long. seams 15/16" Pitch of Rivets 8 3/8" x 3"

up of plate or width of butt straps outer 13/8" Thickness of straps 9/16" Percentage strength of long. joint:—Plate 88.4% Rivet 76.7%

diameter of tube holes in drum 3/32" Pitch of tube holes 4 1/16" x 3 1/2" Percentage strength of shell in way of tubes 47.2%

Drum has a flat side state method of staying None. Depth and thickness of girders at centre fitted

Distance apart Yes Number and pitch of stays in each Yes Working pressure 19

ules Yes Steam Drum Heads or Ends:—Material Steel Thickness 3/4" Radius or how stayed 42"

ize of Manhole Handhole 15" x 11." Water Drums:—Number in each boiler Yes Inside Diameter Yes

aterial of plates Yes Thickness Yes Range of tensile strength Yes Are drum shell plates welded Yes

flanged Yes Description of riveting:—Cir. seams Yes long. seams Yes Diameter of Rivet Holes in Yes

ng. seams Yes Pitch of rivets Yes Lap of plates or width of butt straps Yes Thickness of straps Yes

ercentage strength of long. joint:—Plate Yes Rivet Yes Diameter of tube holes in drum Yes Pitch of tube holes Yes

ercentage strength of drum shell in way of tubes Yes Water Drum Heads or Ends:—Material Yes Thickness Yes

adius or how stayed Yes Size of manhole or handhole Yes Headers or Sections:—Number Two to each boiler

aterial Steel Thickness 3/4" Tested by Hydraulic Pressure to 400# Material of Stays Iron (Hollow)

rea at smallest part 1.63 # Area supported by each stay 56.85 # Working Pressure by Rules 25.3 # Tubes:—Diameter 3"

ickness 10 Gauge. Number 504 each boiler Steam Dome or Collector:—Description of Joint to Shell as stated above.

ercentage strength of Joint Yes Diameter Yes Thickness of shell plates Yes Material Yes

escription of longitudinal joint Yes Diameter of Rivet Holes Yes Pitch of Rivets Yes Working Pressure of shell Yes

Rules 256 # Crown or End Plates:—Material Yes Thickness Yes How stayed Yes

UPERHEATER. Type Foster Date of Approval of Plan New York Tested by Hydraulic Pressure to 600 lbs

ate of Test \_\_\_\_\_ Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler Yes

diameter of Safety Valve 1" Pressure to which each is adjusted 208. Is easing gear fitted Yes

a drain cock or valve fitted at lowest point of superheater Plug. Number, diameter, and thickness of tubes \_\_\_\_\_

pare Gear. Tubes Yes Gaskets or joints:—Manhole Yes Handhole Yes Handhole plates \_\_\_\_\_

The foregoing is a correct description,  
The D. Connelly Boiler Co.  
C. E. Schaefer Manufacturer.

Dates of Survey 1918 During progress of work in shops Sept 4, 13, 19, 27, Oct 7, 14, 23, 31, Nov 6, 13, 19, 26, Dec 5, 9, 17, 19, 30 Is the approved plan of boiler forwarded herewith Yes

while 1919 During erection on board vessel Jan 6, 13, 15, 22, 28, 31, Feb 6, 12 Total No. of visits 25

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boilers have been constructed under Special

way. The materials & workmanship employed in their manufacture are sound & good. The drums & header with

ties in place have been tested by hydraulic pressure to 400 # per sq in & found satisfactory. They have

been shipped in sections to Philadelphia & are to be fitted on a vessel building by the Chester S. B. Co.

Boilers will be eligible for record of I.N.B. (with date) when satisfactorily installed & tested by hydraulic

pressure to 400 # per sq in.

Survey Fee 1/3 # When applied for, 191

Travelling Expenses (if any) 1/3 # When received, 191

See report 4 A.

J. Robinson & W. R. R. R. R.  
 Engineer Surveyors to Lloyd's Register of Shipping.

Committee's Minute New York NOV 11 1919

Assigned See Phil Rpt 3506

