

## REPORT ON WATER TUBE BOILERS.

No. 105501

Received at London Office

4 SEP 1948

Survey held at North Shields Date, First Survey 5. 7. 48 Last Survey 13. 8. 1948  
on the Turbo-electric "TRIBULUS" (Number of Visits 19) Gross 10673 Tons  
made at Portland, Dor. By whom built Kaiser Co., Inc. Yard No. 2399 When built 1945  
made at Lynn, Mass. By whom made General Electric Co. Engine No. 68249 When made 1945  
made at New York By whom made Combustion Eng. Co., Inc. Boiler Nos. 119813 When made 1944  
Horse Power 1,485 Owners Anglo-Saxon Petroleum Co., Ltd. Port belonging to LONDON

TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel North Steel Co. Bethlehem Steel Co.  
Approval of plan Yes, S.M. type Working Pressure 500 lbs. Tested by Hydraulic Pressure to 500 lbs. Date of Test 8. 4. 8  
Can each boiler be worked separately Yes Total Heating Surface of Boilers 11,354 sq. ft. (Gross 9,866 sq. ft.)  
draught fitted Yes Area of Fire Grate (coal) in each Boiler 7 sq. ft.  
type of burners Oil in each boiler Four, Todd Hux. Press. No. and description of safety valves on Two - 2 1/2" duplex consolidated type per rule 4. 9. 0 as fitted 4. 9. 0 (34. 1. 23. 0) Pressure to which they 500 lbs.  
Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter Yes  
Smallest distance between boilers or uptakes and bunkers or woodwork 5' 0" Height of boiler 21' 0"  
nd length 11' 10" X 15' 6" Steam Drums:—Number in each boiler one Inside diameter 42"  
s of plates 1 1/32" X 3/4" Range of tensile strength 500 lbs. Are drum shell plates welded Yes  
d Soldered If fusion welded, state name of welding firm Have all the requirements of the Rules  
I vessels been complied with Yes Description of riveting:—Circ. seams Yes long. seams Yes  
of rivet holes in long. seams Yes Pitch of rivets Yes Thickness of straps Yes Percentage strength of Yes  
nt:—Plate Yes Rivet Yes Diameter of tube holes in drum Yes Pitch of tube holes Yes  
ge strength of shell in way of tubes Yes Steam Drum Heads or Ends:—Range of tensile strength Yes  
ss of plates Yes Radius or how stayed Yes Size of manhole or handhole 12" X 16" Water Drums:—Number Yes  
boiler Yes Inside diameter Yes Thickness of plates Yes Range of tensile strength Yes Are drum shell plates Yes  
or flanged Yes If fusion welded, state name of welding firm Have all the requirements of the Rules  
s I vessels been complied with Yes Description of riveting:—Circ. seams Yes long. seams Yes  
r of rivet holes in long. seams Yes Pitch of rivets Yes Thickness of straps Yes  
ge strength of long. joint:—Plate Yes Rivet Yes Diameter of tube holes in drum Yes Pitch of tube holes Yes  
ge strength of drum shell in way of tubes Yes Water Drum Heads or Ends:—Range of tensile strength Yes  
ss of plates Yes Radius or how stayed Yes Size of manhole or handhole Yes  
or Sections:—Number 14 Material steel Thickness 9/16" Tested by hydraulic pressure to Yes  
Diameter 1 1/2", 2", 4" Thickness 13, 10 X 5 B.W.G. Number 1, 148, 56 X 48 Steam Dome or Collector:—Description of Yes  
shell Nippled Inside diameter 5 3/4" square Thickness of shell plates 1 3/8" Range of tensile Yes  
Description of longitudinal joint Yes If fusion welded, state name of welding Yes  
Have all the requirements for the Rules for Class I vessels been complied with Yes Diameter of rivet holes Yes  
rivets Yes Thickness of straps Yes Percentage strength of long. joint Yes plate Yes rivet Yes  
or End Plates:—Range of tensile strength Yes Thickness Yes Radius or how stayed Yes  
RHEATER, Drums or Headers:—Number in each boiler Two, interlock Inside 5 3/4" square  
ss 5/8" X 7/8" Material steel Range of tensile strength Yes Are header shell plates welded Yes  
ed welded If fusion welded, state name of welding firm Have all the requirements of the Rules  
s I vessels been complied with Yes Description of riveting:—Circ. seams Yes long. seams Yes  
r of rivet holes in long. seams Yes Pitch of rivets Yes Thickness of straps Yes Percentage strength of Yes  
int:—Plate Yes Rivet Yes Diameter of tube holes in header Pitch of tube holes 2" X 2 1/2" Percentage strength of Yes  
ell in way of tubes Yes Drum Heads or Ends:—Thickness Yes Range of tensile strength Yes  
or how stayed Yes Size of manhole or handhole Yes Number, diameter, and thickness of tubes 145, 1 1/2", 11 B.W.G.  
by hydraulic pressure to Yes Date of test Yes Is a safety valve fitted to each section of the superheater which Yes  
shut off from the boiler Can't be shut off No. and description of safety valves One for 60 lbs. - 1 1/2" dia. consolidated type Area of each set Yes  
es 1.23 sq. ft. Pressure to which they are adjusted 473 lbs. Is easing gear fitted Yes

Gear. Has the spare gear required by the Rules been supplied Yes

The foregoing is a correct description,

Manufacturer.

During progress of work in shops - - - Is the approved plan of boiler forwarded herewith Yes  
During erection on board vessel - - - Total No. of visits 19

boiler a duplicate of a previous case. If so, state vessel's name and report No.

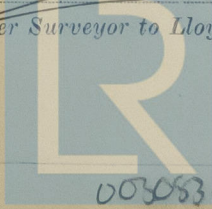
GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. These water tube boilers have been constructed under the supervision of the U.S. Coast Guard and the American Bureau of Shipping. The fittings have been verified as far as practicable. The workmanship is good and the work considered sound.

Survey Fee £ 40 When applied for 19  
Travelling Expenses (if any) £ When received 19

Date

15 OCT 1948

Committee's rule

W. H. Allen & D. D. O'Sullivan  
Engineer Surveyor to Lloyd's Register of Shipping.Lloyd's Register  
Foundation