

22 AUG 1962

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# REPORT ON WATER TUBE BOILERS.

N0146525

Received at London Office

Date of writing Report 29th Jan 1962 When handed in at Local Office 19 Port of LONDON  
No. in Survey held at LONDON Date, First Survey 7.9.61 Last Survey 29.1.1962  
Reg. Book. "ARMOANA" (Number of Visits 4) Gross        Tons Net         
Built at        By whom built        Yard No.        When built         
Engines made at Dumbarton By whom made M. Denny & Bros Ltd. Engine No. 1502 When made         
Boiler made at LONDON By whom made J. Stone Co. (Deptford) Ltd. Boiler No. 20979 When made 1961-62  
HS for Register Book        Owners        Port belonging to       

**WATER TUBE BOILERS - MAIN, AUXILIARY, OR DONKEY.** - Manufacturers of Steel Round Oak Steel Co. Ltd.,  
(Tubes) Accles & Pollock Co.  
Date of Approval of plan 26.8.57 No. and Description or Type One-stone vapor type OK4740  
of Boilers One-stone vapor type OK4740 Working Pressure 300 lb Tested by Hydraulic Pressure to 600 lb Date of Test 29.1.62  
No. of Certificate None Issued Can each boiler be worked separately Yes Total Heating Surface of Boilers 252 sq ft Superheaters         
Half Economisers        Is forced draught fitted Yes electric fan        Area of Fire Grate (coal) in each Boiler         
No. and type of burners (oil) in each boiler One Vapor Boiler type No. and description of safety valves on  
each boiler Two-1 1/2" Birkett Full Lift Area of each set of valves per boiler } per rule 855 sq inch  
are adjusted 115 lb/sq" Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter  
the donkey boiler        Smallest distance between boilers or uptakes and bunkers or woodwork        Height of boiler 6'11"  
Width and length 4'5" & 6'4" Steam Drums: Number in each boiler One Inside diameter (Tube) 5.76"  
Thickness of plates Tube: -432" Range of tensile strength 23/30 Tons (BS 806 Class A) Are drum shell plates welded  
or flanged S.D. Tube If fusion welded, state name of welding firm        Have all the requirements of the Rules  
for Class I vessels been complied with        Description of riveting: - Circ. seams        long. seams         
Diameter of rivet holes in long. seams        Pitch of rivets        Thickness of straps        Percentage strength of  
long. joint: - Plate        Rivet        Diameter of tube holes in drum        Pitch of tube holes         
Percentage strength of shell in way of tubes        Steam Drum Heads or Ends: - Range of tensile strength         
Thickness of plates        Radius or how stayed        Size of manhole or handhole        Water Drums: - Number  
in each boiler        Inside diameter        Thickness of plates        Range of tensile strength        Are drum shell plates  
welded or flanged        If fusion welded, state name of welding firm        Have all the requirements of the Rules  
for Class I vessels been complied with        Description of riveting: - Circ. seams        long. seams         
Diameter of rivet holes in long. seams        Pitch of rivets        Thickness of straps         
Percentage strength of long. joint: - Plate        Rivet        Diameter of tube holes in drum        Pitch of tube holes         
Percentage strength of drum shell in way of tubes        Water Drum Heads or Ends: - Range of tensile strength         
Thickness of plates        Radius or how stayed        Size of manhole or handhole         
Headers or Sections: - Number        Material        Thickness        Tested by hydraulic pressure to         
COILS        Diameter A. 1.66" od x .150" Thickness        Number        Steam Dome or Collector: - Description of  
Tubes        B. 1.313" od x .135"        Thickness of shell plates        Range of tensile  
C. 1.050" od x .120"        Description of longitudinal joint        If fusion welded, state name of welding  
D. 1.660" od x .150"        Have all the requirements for the Rules for Class I vessels been complied with        Diameter of rivet holes         
E. 1.313" od x .156"        Thickness of straps        Percentage strength of long. joint        plate        rivet         
Crown or End Plates: - Range of tensile strength        Thickness        Radius or how stayed         
SUPERHEATER, Drums or Headers: - Number in each boiler None Inside diameter         
Thickness        Material        Range of tensile strength        Are drum shell plates welded  
or flanged        If fusion welded, state name of welding firm        Have all the requirements of the Rules  
for Class I vessels been complied with        Description of riveting: - Circ. seams        long. seams         
Diameter of rivet holes in long. seams        Pitch of rivets        Thickness of straps        Percentage strength of  
long. joint: - Plate        Rivet        Diameter of tube holes in drum        Pitch of tube holes        Percentage strength of  
drum shell in way of tubes        Drum Heads or Ends: - Thickness        Range of tensile strength         
Radius or how stayed        Size of manhole or handhole        Number, diameter, and thickness of tubes         
Tested by hydraulic pressure to        Date of test        Is a safety valve fitted to each section of the superheater which  
can be shut off from the boiler        No. and description of safety valves        Area of each set  
of valves        Pressure to which they are adjusted        Is easing gear fitted         
Spare Gear. Has the spare gear required by the Rules been supplied        J. STONE & COMPANY LTD.         
The foregoing is correct description,        Manufacturer.  
DEPUTY CHIEF INSPECTOR

Dates of Survey 7.9.61. 11.9.61. 23.11.61. 29.1.62. Is the approved plan of boiler forwarded herewith Already at H.O.  
while building        Total No. of visits       

Is this boiler a duplicate of a previous case Yes If so, state vessel's name and report No. Metcalf Motor Coasters Ltd., "CAROLINE" M  
**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) The Boiler has been constructed in accordance with the approved plans and Secretaries letters. The materials and workmanship are good. The boiler is considered suitable for installation in a classed vessel provided the steam be not required for essential Services. Boiler satisfactorily installed and safety valves adjusted to 115 lb/sq in acc. with AB Sinclair

Survey Fee £ 15 : 0 : 0 When applied for 19  
Travelling Expenses (if any) £ : 5 : 0 When received 19

Charged on Certificate D.86015

Engineer Surveyor to Lloyd's Register of Shipping.  
H. ELLIS.

Date         
Committee's Minute        MS.





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