

# REPORT ON WATER TUBE BOILERS.

Received at London Office

Date of writing Report 30.7.1959 When handed in at Local Office 19 Port of LONDON  
 No. in Survey held at LONDON Date, First Survey 30.12.58 Last Survey 17.3.1959  
 Reg. Bk. 40152 on the Motor Barge "BLACKMARTIN C". (Number of Visits 4) Tons { Gross 142  
 Net -  
 Built at Wivenhoe By whom built James Cook & Co. (Wivenhoe) When built 1959-5  
 Engines made at Stamford, Lincs By whom made Blackstone & Co. Ltd. When made 1959-1  
 Boilers made at London By whom made J. Stone & Co. (Deptford) Ltd. No. 20327 When made 1959-3  
 Nominal Horse Power 180 = 36 Owners J.W. Cook & Co. Ltd. Port belonging to Hull

## WATER TUBE BOILERS ~~MAIN, AUXILIARY, OR~~ DONKEY. — Manufacturers of Steel Round Oak Steel Works

Date of Approval of plan 28.11.57. Number and Description or Type  
 of Boilers One - Stone-Vapor, 4616 type Working Pressure 300lbs Tested by Hydraulic Pressure to 600lbs Date of Test 17.3.59  
 No. of Certificate None issued Can each boiler be worked separately - Total Heating Surface of Boilers 105 sq.ft.  
 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, Birkett high lift, 1" dia. Area of each set of valve 2.42 sq.in. Pressure to which they are adjusted 75lbs/sq.in  
 Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler to main boiler  
 Smallest distance between boilers or uptakes and bunkers or woodwork - Height of boiler 68" Width and Length 45" & 70"  
 Steam Drums:—Number in each boiler None Inside diameter - Thickness of plates -  
 Range of Tensile Strength - Are drum shell plates welded or flanged - Description of riveting:—  
 Cir. seams - long. seams - Diameter of rivet holes in long. seams - Pitch of rivets -  
 Lap of plate or width of butt straps - 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 -  
 Working pressure by rules - Steam Drum Heads or Ends:—Range of tensile strength - Thickness of plates -  
 Radius or how stayed - Size of manhole or handhole - Working pressure by rules - Water Drums:—Number  
 in each boiler - Inside Diameter - Thickness of plates - Range of tensile strength - Are drum shell plates  
 welded or flanged - Description of riveting:—Cir. seams - long. seam - Diameter of rivet holes in  
 long. seams - Pitch of rivets - Lap of plates or width of butt straps - 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 - Working pressure by rules - Water Drum Heads or Ends:—Range of  
 Tensile strength - Thickness of plates - Radius or how stayed -  
 Size of manhole or handhole - Working pressure by rules - Headers or Sections:—Number  
 Material - Thickness - Tested by Hydraulic Pressure to - Coils - Diameter 1.050", 1.050", 1.313"  
 Thickness .120", .120" & .135" Number Three Steam Separator:—Description of Joint to Shell -  
 Inside diameter 3.548" Thickness of shell plates .226" Range of tensile strength 23/30 tons/sq.in.  
 Description of longitudinal joint S.D. TUBE. Diameter of rivet holes - Pitch of rivets - Lap of plate or width of  
 butt straps - Thickness of straps - Percentage strength of long. joint - Plate - Rivet -  
 Working Pressure of shell by rules - Crown or End Plates:—Range of tensile strength -  
 Thickness - Radius or how stayed - Working pressure by rules -

SUPERHEATER. Drums or Headers:—Number in each boiler None Inside Diameter -  
 Thickness - Material - Range of tensile strength - Are drum shell plates welded  
 or flanged - Description of riveting:—Cir. seams - long. seams - Diameter of rivet holes in  
 long. seams - Pitch of rivets - Lap of plates or width of butt straps - 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 - Working pressure by rules - Drum Heads or Ends:—  
 Thickness - Range of tensile strength - Radius or how stayed - Size of manhole or handhole -  
 Working pressure by rules - 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 (DEPTFORD) LIMITED  
 This donkey boiler supplying steam for cargo heating coils only. The foregoing is a correct description.  
 Has been satisfactorily installed on board. Safety valves  
 & automatic equipment adjusted for 60 lbs W.P. & operates satisfactorily. DEPUTY CHIEF INSPECTOR.

Dates of Survey { During progress of work in shops - - } 30.12.58, 20.1.59, 3.2.59 & 17.3.59 Is the approved plan of boiler forwarded herewith No  
 { During erection on board vessel - - } - Total No. of visits -

Is this boiler a duplicate of a previous case Yes If so, state vessel's name and report No. M.V. "IRVINGWOOD" Rpt. 137815.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boiler has been constructed in  
 accordance with the Society's Rules, approved plans and Secretary's 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.

Survey Fee ... .. £ : : } When applied for, 10  
 Travelling Expenses (if any) £ : : } When received, 10  
 Charged against Cert. D. 64978

Committee's Minute

Assigned

Engineer Surveyor to Lloyd's Register of Shipping.

W.A. RANKIN.

Lloyd's Register  
Foundation