

REPORT ON WATER TUBE BOILERS.

Received at London Office

Date of writing Report 30/7/ 19 59. When handed in at Local Office 19. Port of LONDON.

No. in Survey held at LONDON. Date, First Survey 14/4/59. Last Survey 1/5/ 1959.

Reg. Bk. on the Tank Barge "BLACKBIRD C" (Number of Visits 2.) Tons { Gross 140.99. Net 75.70.

Built at Wivenhoe By whom built James W. Cook & Co. (Deptford), Ltd. When built 8/59.

Engines made at By whom made J. Stone & Co., (Deptford), Ltd. No. 20328. When made 5-1959.

Boilers made at LONDON. By whom made J. Stone & Co., (Deptford), Ltd. When made 5-1959.

Nominal Horse Power Owners Port belonging to

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Babcock & Wilcox (U.S.A.)

Date of Approval of plan 28/11/57. Number and Description or Type of Boilers One - Stone - Vapor, 4616 type Working Pressure 300 lb./sq. " Tested by Hydraulic Pressure to 600 lb./sq. " Date of Test 1.5.59.

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, high lift, 1" dia. Area of each set of valve 2.42 sq. " Pressure to which they are adjusted 75 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 68" Width and Length 45" x 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 - Coils - Tubes:—Diameter 1.05", 1.05" & 1.313".

Material - Thickness - Tested by Hydraulic Pressure to - Separator

Thickness 120", 120" & 135" Number 3. Steam Donkey Collector:—Description of Joint to Shell -

Inside diameter 3.548" Thickness of shell plates .226" Range of tensile strength 23/30 tons /sq. "

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 - Working pressure by rules -

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 - 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 boiler supplying steam for cargo heating purposes only has been satisfactorily installed on board "Blackbird C" examined under working conditions and safety valves & automatic equipment operate for working pressures of 60 lb per sq. inch.

The foregoing is a correct description.

DEPUTY CHIEF INSPECTOR Manufacturer.

Dates of Survey { During progress of work in shops - 14.4.59 & 1.5.59. } Is the approved plan of boiler forwarded herewith -

{ while building } 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 Rules, approved plans & Secretary's letters. The materials & 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.65734.

Committee's Minute assigned See Rpt. 1.

JEB.

Engineer Surveyor to Lloyd's Register of Shipping.

W. A. RANKIN.

