

REPORT ON WATER TUBE BOILERS. No. 20310.

Received at London Office

25 OCT 1954

Date of writing Report 15th Oct. 19 54. When handed in at Local Office 20th Oct. 19 54. Port of MIDDLESBROUGH.
No. in Survey held at Haverton Hill on Tees. Date, First Survey 21st April. 53. Last Survey 11th Oct. 19 54.

on the single screw tanker "MELIKA". (Number of Visits) Gross 20551 Tons
Net 12533
Built at Haverton Hill. By whom built Furness S.B. Co. Ltd. Yard No. 462 When built 1944
Engines made at Hartlepool. By whom made Richardsons, Westgarth (Hpl) Ltd. Engine No. 2787 When made 1954
Boilers made at Hartlepool. By whom made do do Boiler No. 2787 When made 1954
Nominal Horse Power 2750 Owners Afran Transport Co. Port belonging to Monrovia.

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel See Hartlepool Report 19536.

Date of Approval of plan . Designed 2-Foster Wheeler D Type. Working Pressure 690lbs. Tested by Hydraulic Pressure to . No. and Description or Type

Area of Certificate . Can each boiler be worked separately Yes. Total Heating Surface of Boilers
Is forced draught fitted Yes. Area of Fire Grate (coal) in each Boiler

No. and description of safety valves on each boiler 1 - 2" Cockburn Single Full Bore. Area of each set of valves per boiler (per rule as fitted appd) Pressure to which they are adjusted 690lbs. Are they fitted with easing gear Yes. In case of donkey boilers state whether steam from main boilers can enter

Smallest distance between boilers or uptakes and bunkers or woodwork 2'9" min. Height of boiler
Width and length Steam Drums:—Number in each boiler Inside diameter
Thickness of plates Range of tensile strength Are drum shell plates welded

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

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

Readers or Sections:—Number Material Thickness Tested by hydraulic pressure to
Diameter Thickness Number Steam Dome or Collector:—Description of

Inside diameter Thickness of shell plates Range of tensile strength
Description of longitudinal joint If fusion welded, state name of welding firm Have all the requirements for the Rules for Class I vessels been complied with Diameter of rivet holes

Thickness of straps Percentage strength of long. joint plate rivet
Down or End Plates:—Range of tensile strength Thickness Radius or how stayed

UPERHEATER, Drums or Headers:—Number in each boiler Inside diameter
Thickness Material Range of tensile strength Are drum shell plates welded

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 1-2" Cockburn Double Full Bore. Area of each set of valves Pressure to which they are adjusted 675lbs. Is easing gear fitted Yes

Are Gear. Has the spare gear required by the Rules been supplied Yes
The foregoing is a correct description, Manufacturer.

Is the approved plan of boiler forwarded herewith No. Total No. of visits
During progress of work in shops See Middlesbrough Report 4a.
During erection on board vessel

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. These boilers (West Hartlepool Rpt. 19536) have been satisfactorily installed in the above vessel, examined under working conditions during all power trials. Safety valves adjusted drum 690lbs. Superheat 675lbs. The machinery of this vessel is eligible in my opinion to have notation of LMC 10.54 and TS(CL). Fitted for oil fuel 10.54 FP. above 150°F.

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

Date TUESDAY 7 - DEC 1954 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute See Rpt. 4a

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8/11/54

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