

REPORT ON BOILERS.

No. 25343

Rpt. 5a.

Received at London Office

18 MAY 1955

13 JUL 1955

Date of writing Report 19/4/55 to 13/5/55 When handed in at Local Office 13/5/55 Port of GREENOCK

No. in Reg. Book. Survey held at GREENOCK Date, First Survey 29/11/54 Last Survey 6th MAY 195591424 on the SINGLE SCREW MOTORSHIP "AYIA MARKELLA" (Number of Visits.....1.....) Tons {Gross...✓
Net...✓

Built at SUNDERLAND By whom built BARTON & SONS, LTD., Yard No. 348 When built 1955.

Engines made at GREENOCK By whom made JOHN G. KINCAID & CO., LTD., Engine No. K264 When made 1955.

Boilers made at GREENOCK By whom made JOHN G. KINCAID & CO., LTD., Boiler No. K264 When made 1955.

MN as per Rule. ✓ Owners C.M.L. MARITIME CO. LTD. (C.M. LOS (LONDON) LTD., - MARS) Port belonging to CHIOS

Two MULTITUBULAR BOILERS ~~MADE~~ ~~FOR~~ DONKEY.

Manufacturers of Steel COLVILL & CO. LTD.

Total Heating Surface of Boilers (2 x 1853) = 3706 SQ. FT. Of Superheaters. ✓

Total for Register Book. 3706 SQ. FT. Is forced draught fitted. YES

Coal or Oil fired ~~STAR~~ ~~4~~ ~~- 014 OF~~ ~~ONLY~~ ~~4~~ ~~14~~ ~~15~~ ~~16~~ ~~17~~ ~~18~~ ~~19~~ ~~20~~ ~~21~~ ~~22~~ ~~23~~ ~~24~~ ~~25~~ ~~26~~ ~~27~~ ~~28~~ ~~29~~ ~~30~~ ~~31~~ ~~32~~ ~~33~~ ~~34~~ ~~35~~ ~~36~~ ~~37~~ ~~38~~ ~~39~~ ~~40~~ ~~41~~ ~~42~~ ~~43~~ ~~44~~ ~~45~~ ~~46~~ ~~47~~ ~~48~~ ~~49~~ ~~50~~ ~~51~~ ~~52~~ ~~53~~ ~~54~~ ~~55~~ ~~56~~ ~~57~~ ~~58~~ ~~59~~ ~~60~~ ~~61~~ ~~62~~ ~~63~~ ~~64~~ ~~65~~ ~~66~~ ~~67~~ ~~68~~ ~~69~~ ~~70~~ ~~71~~ ~~72~~ ~~73~~ ~~74~~ ~~75~~ ~~76~~ ~~77~~ ~~78~~ ~~79~~ ~~80~~ ~~81~~ ~~82~~ ~~83~~ ~~84~~ ~~85~~ ~~86~~ ~~87~~ ~~88~~ ~~89~~ ~~90~~ ~~91~~ ~~92~~ ~~93~~ ~~94~~ ~~95~~ ~~96~~ ~~97~~ ~~98~~ ~~99~~ ~~100~~ ~~101~~ ~~102~~ ~~103~~ ~~104~~ ~~105~~ ~~106~~ ~~107~~ ~~108~~ ~~109~~ ~~110~~ ~~111~~ ~~112~~ ~~113~~ ~~114~~ ~~115~~ ~~116~~ ~~117~~ ~~118~~ ~~119~~ ~~120~~ ~~121~~ ~~122~~ ~~123~~ ~~124~~ ~~125~~ ~~126~~ ~~127~~ ~~128~~ ~~129~~ ~~130~~ ~~131~~ ~~132~~ ~~133~~ ~~134~~ ~~135~~ ~~136~~ ~~137~~ ~~138~~ ~~139~~ ~~140~~ ~~141~~ 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Are the stays drilled at the outer ends No Margin stays: Diameter { At turned off part, 1 3/4" or Over threads. 1 3/4" ✓
No. of threads per inch 9
Tubes: Material PLAIN-ERW-STL. External diameter { Plain 2 1/2" Stay 2 1/2" Thickness { 10 W.G. 3/16" No. of threads per inch 9
Pitch of tubes 3 3/4" x 3 3/4" Manhole compensation: Size of opening in shell plate 16 1/2" x 20 1/2" Section of compensating ring 19.462 sq" No. of rivets and diameter of rivet holes TOTAL 38 x 1 1/2"
Outer row rivet pitch at ends 8 5/16" Depth of flange if manhole flanged 3 1/2" Steam Dome: Material _____
Tensile strength _____ Thickness of shell _____ Description of longitudinal joint _____
Diameter of rivet holes _____ Pitch of rivets _____ Percentage of strength of joint { Plate _____ Rivet _____
Internal diameter _____ Thickness of crown _____ No. and diameter of stays _____ Inner radius of crown _____
How connected to shell _____ Size of doubling plate under dome _____ Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell _____
Type of Superheater _____ Manufacturers of { Tubes _____ Steel forgings _____ Steel castings _____
Number of elements _____ Material of tubes _____ Internal diameter and thickness of tubes _____
Material of headers _____ Tensile strength _____ Thickness _____ Can the superheater be shut off and the boiler be worked separately _____ Is a safety valve fitted to every part of the superheater which can be shut off from the boiler _____
Area of each safety valve _____ Are the safety valves fitted with easing gear _____
Pressure to which the safety valves are adjusted _____ Hydraulic test pressure: tubes _____ forgings and castings _____ and after assembly in place _____ Are drain cocks or valves fitted to free the superheater from water where necessary _____

Have all the requirements of Sections THE APPROPRIATE 14 to 25 inclusive for boilers been complied with YES

For JOHN G. KINCAID & COY. LIMITED.

The foregoing is a correct description,

W. H. Kincaid Manufacturer.
Chief Draughtsman.

Dates of Survey while building { During progress of work in shops - - } During erection on board vessel - - -

Are the approved plans of boiler and superheater forwarded herewith YES (If not state date of approval.)

Total No. of visits _____

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.) THE BOILERS HAVE CONSTRUCTED UNDER SPECIAL SURVEY IN ACCORDANCE WITH THE RULES AND APPROVED PLANS. THE WORKMANSHIP AND MATERIALS ARE GOOD. THE BOILERS HAVE BEEN DESPATCHED TO SUNDERLAND FOR INSTALLATION IN THE VESSEL.

SURVEY OF MACHINERY.

SUNDERLAND

The boilers described herein have been securely fixed on board the vessel, examined under steam, the safety valves adjusted and tested for accumulation and found satisfactory. Compression ring sizes as follows: PORT BLR - P.V. 1 1/2"; S.V. 1 1/2"; STARB. BLR - P.V. 3 3/64"; S.V. 3 3/64". The boilers are, in my opinion, eligible to be classed in the Register Book, with the main machinery.

R. W. Skinner

[SEE MACHINERY F.E. REPORT.

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

H. K. Taylor

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 17 MAY 1955

SEE ACCOMPANYING MACHINERY REPORT

Assigned

TUESDAY 30 AUG 1955

See Rep. 4 C.

Lloyd's Register Foundation