

REPORT ON BOILERS.

No. 40982.

Received at London Office THU. 31 MAR. 1921

Date of writing Report 25.3.1921 When handed in at Local Office 25.3.1921 Port of Glasgow

No. in Survey held at Date, First Survey 12th Nov. 1920. Last Survey 17th March 1921
Reg. Book. on the No. of Visits 9. Tons { Gross 652
Net 305.

Master Built at Troon By whom built Ailsa & Co. Ltd. 116 When built 1921
Engines made at Troon By whom made Ailsa & Co. Ltd. 116 When made 1921
Boilers made at Glasgow By whom made Dunsmuir & Jackson Ltd. (B142) When made 1921
Registered Horse Power 127 Owners High Shipping Co. Port belonging to Greenock

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Skel B. Beardmore & Co. Ltd.

(Letter for record S) Total Heating Surface of Boilers 23987 Is forced draft fitted No. and Description of

Boilers 2 Single & d. Working Pressure 180 Tested by hydraulic pressure to 320 Date of test 17/3/21

No. of Certificate 1575 Can each boiler be worked separately Area of fire grate in each boiler 35.7 No. and Description of

safety valves to each boiler Area of each valve Pressure to which they are adjusted

Are they fitted with easing gear 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 Mean dia. of boilers 11-6 3/16" Length 15-6"

Material of shell plates S Thickness 15/16" Range of tensile strength 28.5-32.5 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams DR long. seams TRIDBS Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 4 3/4"

Per centages of strength of longitudinal joint rivets 90.5-94 Working pressure of shell by

rules 180 Size of manhole in shell 19 3/4 x 15 3/4" Size of compensating ring 3 1/2 x 28 3/4 x 1 1/2" No. and Description of Furnaces in each

boiler 2 Corrugated Material S Outside diameter 3.7 Length of plain part top Thickness of plates crown 33/64

Description of longitudinal joint mild. No. of strengthening rings Working pressure of furnace by the rules 181 Combustion chamber

plates: Material S Thickness: Sides 1 1/16" Back 23/32" Top 1 1/16" Bottom 13/16" Pitch of stays to ditto: Sides 8 3/4 x 9 3/4" Back 9 3/4 x 9 3/4"

Top 9 3/4 x 8 If stays are fitted with nuts or riveted heads DN Working pressure by rules 191 Material of stays S Area at

smallest part 99.231 Area supported by each stay 93 Working pressure by rules 181 End plates in steam space: Material S Thickness 1"

Pitch of stays 14 3/4 x 16 How are stays secured DN Working pressure by rules 192 Material of stays S Area at smallest part 4.11

Area supported by each stay 236 Working pressure by rules 181 Material of Front plates at bottom S Thickness 1 1/32" Material of

Lower back plate S Thickness 29/32" Greatest pitch of stays 14 3/4 x 9 3/8" Working pressure of plate by rules 215 Diameter of tubes 3 1/2"

Pitch of tubes 14 3/4 x 14 3/8 Material of tube plates S Thickness: Front 1 1/32" Back 7/8" Mean pitch of stays 14 3/4" Pitch across wide

water spaces 14 1/2" Working pressures by rules 182 Girders to Chamber tops: Material Iron Depth and thickness of

rider at centre 9 x 7 1/8 (2) Length as per rule 2.9 1/32" Distance apart 8" Number and pitch of Stays in each 3 of 8 3/4"

Working pressure by rules 187 Steam dome: description of joint to shell % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

UPERHEATER. Type Date of Approval of Plan 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

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

VERTICAL DONKEY BOILER—No. Description Manufacturers of steel

Made at By whom made When made Where fixed Working pressure

Tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves

No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can

enter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile

strength Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

ap of plating Per centage of strength of joint Rivets Plates Working pressure of shell by rules Thickness of shell crown plates

radius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown

plates Radius of do. Stayed by Diameter of uptake Thickness of uptake plates

Thickness of water tubes Survey request form DUNSMUIR & JACKSON, Limited.

The foregoing is a correct description, James Fletcher Manufacturer.

Dates During progress of work in shops - - - 1920 Nov. 22, Dec. 20 (1921) Jan. 17, 27 Feb. 7, 10, 25 Mar. 17

Survey while building During erection on board vessel - - -

Total No. of visits 9.

Is the approved plan of main boiler forwarded herewith

" " " donkey " "

002038-002050-0282

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

Three Boilers have been built under Special Survey in accordance with the approved plans & the workmanship & material are of good quality. These boilers are to be shipped to Troon at which port they will be fitted on board.

Certificate (if required) to be sent to

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee .. £ 16 : -
 Special £
 Donkey Boiler Fee £
 Travelling Expenses (if any) £

When applied for,

25/3/21

When received,

31/3/21

Committee's Minute

Assigned

GLASGOW.

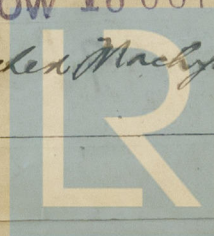
TRANSMIT TO LONDON

30 MAR 1921

W. Gordon-Mitchell
 Engineer Surveyor to Lloyd's Register of Shipping

GLASGOW 18 OCT 1921

See attached Machy. Report.



Lloyd's Register
 Foundation