

REPORT ON BOILERS.

No. 41727

Received at London Office

WFD. 15 FEB. 1922

Date of writing Report 13. 2. 22 When handed in at Local Office 13. 2. 22 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 27. 4. 1921 Last Survey 10. 2. 1923

Reg. Book. on the P.S. Ferry FRANCIS STOREY. (Number of Visits 17) Gross 464 Tons Net 147

Master Built at Troon By whom built AUSA STEEL CO. When built 1922

Engines made at Troon By whom made AUSA STEEL CO. E N° 118. When made 1922

Boilers made at Glasgow By whom made DUNSMUIR & JACKSON (B.H.H.) When made 1922

Registered Horse Power Owners Wallacey Corporation Port belonging to Liverpool

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel STEEL CO of Scotland

(Letter for record R) Total Heating Surface of Boilers 3498# Is forced draft fitted 870 No. and Description of Boilers 2 Heavy Type 2 B. Working Pressure 200 Tested by hydraulic pressure to 350 Date of test 10. 2. 22

No. of Certificate 16,005 Can each boiler be worked separately Area of fire grate in each boiler 58.5# 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 10-1" Length 17-0"

Material of shell plates S Thickness 1" Range of tensile strength 28/32 Are the shell plates welded or flanged 870

Descrip. of riveting: cir. seams DR long. seams TRIDBS Diameter of rivet holes in long. seams 1-1/16" Pitch of rivets 7/16"

Length of butt straps 1-4 1/2 Per centages of strength of longitudinal joint rivets 90.4% plate 86.9% Working pressure of shell by rules 218 Size of manhole in shell 16x12" Size of compensating ring plate flanged No. and Description of Furnaces in each boiler 3 boogafed Material S Outside diameter 3-7" Length of plain part top 9" bottom 9" Thickness of plates crown 9/16" bottom 9/16"

Description of longitudinal joint weld No. of strengthening rings 900 Working pressure of furnace by the rules 210 Combustion chamber plates: Material S Thickness: Sides 3/4" Back 3/4" Top 3/16" Bottom 3/4" Pitch of stays to ditto: Sides 8-8 1/8" Back -

Top 9 1/4" If stays are fitted with nuts or riveted heads nuts. Working pressure by rules 216 Material of stays Iron Area at smallest part 203" Area supported by each stay 409" Working pressure by rules 212 End plates in steam space: Material S Thickness 1/4" 1/32"

Pitch of stays 14 1/2 x 13" How are stays secured DN. Working pressure by rules 210 Material of stays S Area at smallest part 4 1/2 x 5 05"

Area supported by each stay 188.5" Working pressure by rules 208 Material of Front plates at bottom S Thickness 1/32" Material of Lower back plate S Thickness 1/16" Greatest pitch of stays 24 1/4" Working pressure of plate by rules 217 Diameter of tubes 3"

Pitch of tubes 4 1/2 x 4" Material of tube plates S Thickness: Front 1" Back 1/16" Mean pitch of stays 10 3/32" Pitch across wide water spaces 13 1/4" Working pressures by rules 210 Girders to Chamber tops: Material Iron Depth and thickness of girder at centre 12 1/2 x 8 x 2 Length as per rule 46" Distance apart 9 1/4" Number and pitch of Stays in each 5 at 8"

Working pressure by rules 210 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

SUPERHEATER. 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

DUNSMUIR & JACKSON, Limited. The foregoing is a correct description, James Fletcher Manufacturer.

Dates of Survey During progress of work in shops (1921) Apr 27 May 3, 5, 18 Jun 1 July 5 Aug 11, 22, 29 Sep 27 Is the approved plan of boiler forwarded herewith Yes
while building During erection on board vessel --- Total No. of visits 17

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These 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. (These Boilers are dupl of B 143 of Rpt No 41662)

Survey Fee £ 23 : 6 : When applied for, 14/2/22 These boilers were securely fitted on board & successfully tried under steam D.C.B.
Travelling Expenses (if any) £ : : When received, 16/2/22

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

Committee's Minute GLASGOW 14 FEB 1922
Assigned TRANSMIT TO LONDON See Glasgow Report No. 41727