

REPORT ON BOILERS.

No. 17651

Date of writing Report May 19th 1920 When handed in at Local Office May 20th 1920 Port of Greenock Received at London Office

No. in Survey held at Greenock Date, First Survey 16th April, 1919 Last Survey May 19th 1920

Reg. Book. on the 1/5 "TELESFORA DE LARRINAGA." (Number of Visits 87)

Master R. F. Ingle. Built at Port-Glasgow. By whom built R. Duncan & Co (1/5 N^o 344) When built 1920-5.

Engines made at Greenock. By whom made Rankin & Blackmore Ltd (N^o 353) When made 1920-5.

Boilers made at Greenock. By whom made Rankin & Blackmore Ltd (N^o 353) When made 1920-5.

Registered Horse Power _____ Owners Larrinaga & Co Ltd Port belonging to Liverpool.

Tons } Gross 5780
Net 3537

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY. — Manufacturers of Steel The Steel Co of Scotland Ltd.

(Letter for record 1) Total Heating Surface of Boilers 1736 Is forced draft fitted no. No. and Description of Boilers One Cylt Multi Single Ended Working Pressure 140# Tested by hydraulic pressure to 280# Date of test 8-3-20

No. of Certificate 1432. Can each boiler be worked separately Area of fire grate in each boiler 34.5 No. and Description of safety valves to each boiler Two Spring Area of each valve 5.94 Pressure to which they are adjusted 145#

Are they fitted with easing gear Yes. In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no.

Smallest distance between boilers or uptakes and bunkers or woodwork 2.4 Mean dia. of boilers 13'-0" Length 11'-0"

Material of shell plates S. Thickness 27/32 Range of tensile strength 28 1/2 to 32 1/2 Are the shell plates welded or flanged no.

Descrip. of riveting: cir. seams LAP DR. long. seams DBS/TR. Diameter of rivet holes in long. seams 15/16 Pitch of rivets 6 3/4

Per centages of strength of longitudinal joint rivets 90.12 Working pressure of shell by rules 142 lb. Size of manhole in shell 16" x 12" Size of compensating ring 34" x 30" x 7/8" No. and Description of Furnaces in each boiler 2 Deighton Material S. Outside diameter 49 1/4 Length of plain part _____ Thickness of plates crown 17/32 bottom 17/32

Description of longitudinal joint Weld No. of strengthening rings _____ Working pressure of furnace by the rules 166# Combustion chamber plates: Material S. Thickness: Sides 21/32 Back 9/16 Top 21/32 Bottom 1/16 Pitch of stays to ditto: Sides 10 1/2 x 9 1/2 Back 8 3/4 x 8 5/8

Top 10 1/2 x 10 1) stays are fitted with nuts or riveted heads Nuts Working pressure by rules 141# Material of stays Iron Area at smallest part 1.77 Area supported by each stay 75.4 Working pressure by rules 176# End plates in steam space: Material S. Thickness 1 1/32

Pitch of stays 18 3/4 x 18 How are stays secured DN+W Working pressure by rules 141# Material of stays S. Area at smallest part 4.77

Area supported by each stay 337.5 Working pressure by rules 147# Material of Front plates at bottom S. Thickness 1/16 Material of Lower back plate S. Thickness 3/4 Greatest pitch of stays 14" x 8 5/8 Working pressure of plate by rules 144# Diameter of tubes 3"

Pitch of tubes 4 1/4 x 4 1/8 Material of tube plates S. Thickness: Front 11/16 Back 15/8 Mean pitch of stays 8 3/8 Pitch across wide water spaces 14" Working pressures by rules 160# Girders to Chamber tops: Material S. Depth and thickness of girder at centre 9 1/4 x 1 1/2 Length as per rule 36 13/16 Distance apart 10" Number and pitch of Stays in each 3 @ 10 1/2"

Working pressure by rules 141# Steam dome: description of joint to shell None % 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

The foregoing is a correct description,
RANKIN & BLACKMORE, LTD.,
Manufacturer.

Dates of Survey } During progress of work in shops - - }
while building } During erection on board vessel - - - }
See Mcky Report.

Is the approved plan of boiler forwarded herewith Yes.
Total No. of visits 87.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boiler has been constructed under special survey. The materials & workmanship are sound & good. The boiler has been tested in the shop by hydraulic pressure to 280# per sq in, afterwards satisfactorily installed in vessel & examined under steam & the safety valves adjusted as above.

Survey Fee ... £ : } When applied for, 191
Travelling Expenses (if any) £ : } When received, 191

Committee's Minute GLASGOW 27 MAY 1920
Assigned See accompanying report
J. Robinson & W. Lane
Engineer Surveyors to Lloyd's Register of Shipping.