

REPORT ON BOILERS.

No. 32315

WED. FEB. 5. 1913
TUE. MAR. 18. 1913

Received at London Office

Date of writing Report

19

When handed in at Local Office

31. 1. 1913

10

Port of

Glasgow

No. in Survey held at

Glasgow

Date, First Survey

22. 10. 12

Last Survey

10 - 1 - 1913

Reg. Book.

Camp. on the Boiler No. B 185 Sub S. K. "DOGGAR BANK"

(Number of Visits)

8

Tons

Gross

Net

Master

Built at

Selby

By whom built

Cochrane & Sons

When built

1913

Engines made at

Cratbridge

By whom made

W V V Lidgerwood (2395) when made

1913

Boilers made at

Glasgow

By whom made

David Rowan & Co

when made

1913

Registered Horse Power

Owners H. Northey S. S. Lister Co. Ltd. Port belonging to Hull

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

The Steel Company of Scotland Ltd

Letter for record (5) Total Heating Surface of Boilers 1430 Is forced draft fitted No. and Description of

Boilers One Single Ended Working Pressure 200 Tested by hydraulic pressure to 400 Date of test 26/12/12

No. of Certificate 11924 Can each boiler be worked separately Area of fire grate in each boiler 47 No. and Description of

safety valves to each boiler Two spring Area of each valve 4.9 Pressure to which they are adjusted 205 lbs.

Are they fitted with easing gear Yes 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 9" Int. Mean dia. of boilers 13.6 Length 10.6

Material of shell plates steel Thickness 17/32 Range of tensile strength 28632 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams D. R. L. long. seams S. B. S. Diameter of rivet holes in long. seams 17/16 Pitch of rivets 8 3/4

Lap of plates or width of butt straps 19 1/4 Per centages of strength of longitudinal joint rivets 94.6 Working pressure of shell by

rules 202 Size of manhole in shell 16 x 12 Size of compensating ring Flanged No. and Description of Furnaces in each

boiler 3 plain Material steel Outside diameter 3.2 Length of plain part top 69 Thickness of plates crown 49/64

Description of longitudinal joint wild No. of strengthening rings none Working pressure of furnace by the rules 200 Combustion chamber

plates: Material steel Thickness: Sides 23/32 Back 21/32 Top 23/32 Bottom 23/32 Pitch of stays to ditto: Sides 8 3/4 x 9 1/2 Back 8 1/2 x 8 1/2

Top 8 1/2 x 9 1/2 If stays are fitted with nuts or riveted heads none Working pressure by rules 206 Material of stays steel Diameter at

smallest part 2.07 Area supported by each stay 81 Working pressure by rules 230 End plates in steam space: Material steel Thickness 15/16

Pitch of stays 20 1/2 x 20 How are stays secured D. nuts Working pressure by rules 200 Material of stays steel Diameter at smallest part 10.178

Area supported by each stay 405 Working pressure by rules 230 Material of Front plates at bottom steel Thickness 1 Material of

Lower back plate steel Thickness 7/8 Greatest pitch of stays 13 1/4 Working pressure of plate by rules 220 Diameter of tubes 3 1/2

Pitch of tubes 5 x 5 + 5 1/2 Material of tube plates steel Thickness: Front 1 Back 7/8 Mean pitch of stays 14 1/4 Pitch across wide

water spaces 13 3/4 Working pressures by rules 200 Girders to Chamber tops: Material steel Depth and thickness of

girder at centre 10 1/2 x 7 1/2 Length as per rule 37 1/2 Distance apart 9 1/4 Number and pitch of Stays in each 3 - 8 3/4

Working pressure by rules 200 Superheater or Steam chest: how connected to boiler none Can the superheater be shut off and the boiler worked

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

holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

Survey request form

The foregoing is a correct description,

No. 1114 attached

for David Rowan & Co Manufacturer.

Dates of Survey During progress of work in shops - 1912 Oct. 22 Nov. 4. 11. 28. Dec. 4. 23. 26. Is the approved plan of boiler forwarded herewith Yes

while building During erection on board vessel - 1913 Jan. 10. Total No. of visits 8

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under Special Survey & is of good materials & workmanship. This boiler has now been secured on board according with the Rules, examined under diam & found satisfactory.

Charged Machinery Rpt. attached

Survey Fee ... £ 4 : 4 : 4 When applied for, 19

Travelling Expenses (if any) £ : : When received, 19

H. Gardner-Smith. Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 4 - FEB. 1913

TUE. APR. 1 - 1913

Assigned