

REPORT ON BOILERS.

File No. 23641
Sta. No. 22967

Port of Glasgow

Received at London Office

27 MAR 1906

Date, first Survey 7th March Last Survey 14th March 1906

No. in Survey held at Aman

Reg. Book.

on the Donkey Boilers for S.S. "Klio"

(Crackay/Boiler No 3)

Gross 1363.23
Net 853.84

Master

Built at Alloa By whom built

When built 1906

Engines made at Sunderland

By whom made Messrs Mac Coll & Pollock

when made 1906

Boiler made at Sunderland

By whom made Messrs Mac Coll & Pollock

when made 1906

Registered Horse Power

Owners Dampfschiffahrts Gesellschaft Neptune Port belonging to Bremen

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

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

Boilers Working Pressure Tested by hydraulic pressure to Date of test

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

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

Are they fitted with casing 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 Length

Material of shell plates Thickness Range of tensile strength Are the shell plates welded or flanged

Descrip. of riveting: cir. seams long. seams Diameter of rivet holes in long. seams Pitch of rivets

Lap of plates or width of butt straps Per centages of strength of longitudinal joint rivets Working pressure of shell by plate

rules Size of manhole in shell Size of compensating ring No. and Description of Furnaces in each boiler

boiler Material Outside diameter Length of plain part top Thickness of plates crown bottom

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

plates: Material Thickness: Sides Back Top Bottom Pitch of stays to ditto: Sides Back

Top If stays are fitted with nuts or riveted heads Working pressure by rules Material of stays Diameter at

smallest part Area supported by each stay Working pressure by rules End plates in steam space: Material Thickness

Pitch of stays How are stays secured Working pressure by rules Material of stays Diameter at smallest part

Area supported by each stay Working pressure by rules Material of Front plates at bottom Thickness Material of

Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules Diameter of tubes

Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays Pitch across wide

water spaces Working pressures by rules Girders to Chamber tops: Material Depth and thickness of

girder at centre Length as per rule Distance apart Number and pitch of Stays in each

Working pressure by rules Superheater or Steam chest; how connected to boiler 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 casing gear

VERTICAL DONKEY BOILER— No. 2964 Description Cochran Manufacturers of steel Clydebridge

Made at Aman By whom made Cochran & Co Aman When made 1906 Where fixed In stokehold

Working pressure 100 tested by hydraulic pressure to 200 No. of Certificate 4944 Fire grate area 19 Description of safety valves Spring

No. of safety valves 2 Area of each 7.07 Pressure to which they are adjusted 100 lb If fitted with casing gear Yes If steam from main boilers can

enter the donkey boiler No Dia. of donkey boiler 6'-0" Length 12'-6" Material of shell plates Steel Thickness 1/32 + 1/32 Range of tensile

strength 24/32 Descrip. of riveting long. seams Double rivet Dia. of rivet holes 24/32 Whether punched or drilled Yes Pitch of rivets 2 3/4

Lap of plating 4 1/8 Per centage of strength of joint Rivets 64% Working pressure of shell by rules 100 lbs Thickness of shell crown plates 1/16

Radius of do. 3 ft radius No. of Stays to do. 6 Dia. of stays 1 1/2 Dia. of furnace Top 2'-6" Bottom 5" dia Length of furnace 3 ft

Thickness of furnace plates 1/16 Description of joint Lap joint Working pressure of furnace by rules 100 lbs Thickness of furnace crown

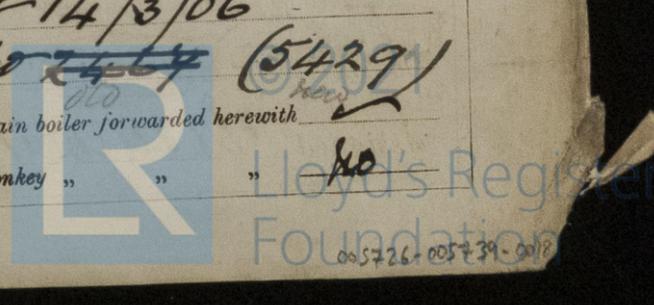
plates 1/16 Stayed by Yes Diameter of uptake 13" x 14 1/2 Thickness of uptake plates 1/16 Thickness of tube plates 10/16 + 12/16

The foregoing is a correct description,

Manufacturers.

Dates of Survey while building
During progress of work in shops - - - 1906 March 7, 14
During erection on board vessel - - -
Total No. of visits 2

Date of Test 14/3/06
Drawing No. 2467 (5429)
Is the approved plan of main boiler forwarded herewith Yes
" " " donkey " " Yes



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

This boiler is of good workmanship and material and on being tested proved to be sound & good the usual conditions of survey have been carried out
 This boiler has been satisfactorily fitted on board & mounted, the safety valves adjusted under steam & worked satisfactorily

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Certificate (if required) to be sent to

The amount of Entry Fee...	£	:	:	When applied for.
Special	£	2	2	19
Donkey Boiler Fee ...	£	:	:	When received.
Travelling Expenses (if any) £	:	:	:	19

James Kollison & R.W. Coombe
 Principal Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute Glasgow 26 MAR 1908 FRI. NOV 23 1908

Assigned Draught to London.

