

# REPORT ON MACHINERY.

No. 11957

Date of writing Report 28/12/15 when handed in at Local Office 28/12/15 Port of Greenock THU. 30 DEC. 1915  
 Date, First Survey Jan 18/15 Last Survey 2 Feb 1915  
 (Number of Visits 2)

Proposed by Port Glasgow By whom built Wm Hamilton & Co Ltd Tons Gross  
S.S. "CUMBERLAND" By whom made J Rowan & Co When built 1915  
 Built at Glasgow By whom made J Rowan & Co when made 1915  
 Owners Federal Steam Co Port belonging to ..  
 Is Refrigerating Machinery fitted for cargo purposes .. Is Electric Light fitted ..

## ENGINES, &c.—Description of Engines

No. of Cylinders .. No. of Cranks ..  
 Length of Stroke .. Revs. per minute .. Dia. of Screw shaft .. Material of screw shaft ..  
 Is the after end of the liner made water tight ..  
 If the liner is in more than one length are the joints burned .. If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive .. If two liners are fitted, is the shaft lapped or protected between the liners .. Length of stern bush ..  
 Dia. of Crank shaft journals .. Dia. of Crank pin .. Size of Crank webs .. Dia. of thrust shaft under ..  
 Dia. of screw .. Pitch of Screw .. No. of Blades .. State whether moveable .. Total surface ..  
 Diameter of ditto .. Stroke .. Can one be overhauled while the other is at work ..  
 Diameter of ditto .. Stroke .. Can one be overhauled while the other is at work ..  
 Sizes of Pumps .. No. and size of Suctions connected to both Bilge and Donkey pumps ..  
 In Holds, &c. ..

Connected to condenser, or to circulating pump .. Is a separate Donkey Suction fitted in Engine room & size ..  
 Are the roses in Engine room always accessible .. Are the sluices on Engine room bulkheads always accessible ..  
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates .. Are the Discharge Pipes above or below the deep water line ..  
 Are the Blow Off Cocks fitted with a spigot and brass covering plate ..  
 How are they protected ..  
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times ..  
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges ..  
 Dates of examination of completion of fitting of Sea Connections 2/2/15 of Stern Tube 18/1/15 Screw shaft and Propeller 2/2/15  
 Is it fitted with a watertight door .. worked from ..

## BOILERS, &c.—(Letter for record) Manufacturers of Steel

Is Forced Draft fitted .. No. and Description of Boilers ..  
 Tested by hydraulic pressure to .. Date of test .. No. of Certificate ..  
 Area of fire grate in each boiler .. No. and Description of Safety Valves to ..  
 Pressure to which they are adjusted .. Are they fitted with easing gear ..  
 Mean dia. of boilers .. Length .. Material of shell plates ..  
 Descrip. of riveting: cir. seams ..  
 Working pressure of shell by rules .. Size of manhole in shell ..  
 No. and Description of Furnaces in each boiler .. Material .. Outside diameter ..  
 Description of longitudinal joint .. No. of strengthening rings ..  
 Combustion chamber plates: Material .. Thickness: Sides .. Back .. Top .. Bottom ..  
 Working pressure by rules ..  
 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: ..  
 Working pressure by rules .. Material of stays ..  
 Material of Front plates at bottom ..  
 Working pressure of plate by rules ..  
 Material of tube plates .. Thickness: Front .. Back .. Mean pitch of stays ..  
 Girders to Chamber tops: Material .. Depth and ..  
 Number and pitch of stays in each ..  
 Can the superheater be shut off and the boiler worked ..  
 Description of longitudinal joint .. Diam. of rivet ..  
 Material of flue plates .. Thickness ..  
 End plates: Thickness .. How stayed ..  
 Area of safety valves to superheater .. Are they fitted with easing gear ..

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - }  
{ During erection on board vessel - - - }  
Total No. of visits

Is the approved plan of main boiler forwarded herewith

“ “ “ donkey “ “ “

Dates of Examination of principal parts—Cylinders Slides Covers Pistons Rods  
Connecting rods Crank shaft Thrust shaft Tunnel shafts Screw shaft Propeller  
Stern tube Steam pipes tested Engine and boiler seatings 2 | 2 | 15 Engines holding down bolts  
Completion of pumping arrangements Boilers fixed Engines tried under steam  
Main boiler safety valves adjusted Thickness of adjusting washers  
Material of Crank shaft Identification Mark on Do. Material of Thrust shaft Identification Mark on Do.  
Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts Identification Marks on Do.  
Material of Steam Pipes Test pressure

Is an installation fitted for burning oil fuel Is the flash point of the oil to be used over 150° F.

Have the requirements of Section 49 of the Rules been complied with

Is this machinery duplicate of a previous case If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c. Propellers & fastenings of sea connections examined before launching & found in order.

Certificate (if required) to be sent for The Surveyors are requested not to write on or below this space for Committee's Minutes.

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

*H. Charlotte*  
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute GLASGOW 29 DEC. 1915

Assigned See minute on Gls Rpt. No 35675

