

REPORT ON MACHINERY.

Port of Leith
Survey held at Liverpool
Date, first Survey 21st Dec. 1899 Last Survey 19th March 1900
(Number of Visits 5)
Gross Tons
Net Tons
When built 1900
Built at Holland By whom built J. Meijer
By whom made
When made
Liverpool By whom made J. Black
When made 1900
Owners
Port belonging to
Is Refrigerating Machinery fitted
Is Electric Light fitted

Description of Engines				No. of Cylinders	No. of Cranks
Length of Stroke				as per rule	as per rule
Revs. per minute				Dia. of Screw shaft	Lgth. of stern bush
Dia. of Crank shaft journals				as fitted	Dia. of thrust shaft under
Pitch of screw				No. of blades	State whether moveable
Diameter of ditto				Stroke	Total surface
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 Valves or Cocks				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 the cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times					
Are the suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges				Is the screw shaft tunnel watertight	
Is the screw shaft tunnel watertight					
Is forced draft fitted					
Tested by hydraulic pressure to					
No. and Description of safety valves to					
Are they fitted with easing gear					
Mean dia. of boilers				Length	
Material of shell plates				long. seams	
Range of tensile strength				Are they welded or flanged	
Descrip. of riveting: cir. seams				long. seams	
Lap of plates or width of butt straps					
Size of manhole in shell					
Material				Outside diameter	
No. of strengthening rings					
Back				Top	
Bottom					
Working pressure by rules				End plates in steam space:	
Material of stays					
Working pressure by rules				Material of Front plates at bottom	
Working pressure of plate by rules					
Mean pitch of stays					
Back				Front	
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	
Are they fitted with easing gear					

DONKEY BOILER— No. 245 Description vertical with cross tubes
 Made at Livedmouth By whom made J. Black When made 1900 Where fixed
 Working pressure 100 lbs tested by hydraulic pressure to 200 lbs No. of Certificate 472 Fire grate area Description of safety valves
 No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam
 enter the donkey boiler Dia. of donkey boiler 5' 0" Length 9' 6" Material of shell plates Steel Thickness 13/16"
 strength 17/32 Descrip. of riveting long. seams Lap 1 Rivet Dia. of rivet holes 13/16" Whether punched or drilled drilled
 Lap of plating 5/4" Per centage of strength of joint 74 Thickness of shell crown plates 9/16" Radius of do. 3' 6" No. of
 Dia. of stays. Diameter of furnace Top 3' 10 3/4" Bottom 4' 4 1/4" Length of furnace 47" Thickness of furnace plates 9/16"
 joint Lap S. Rivet Thickness of furnace crown plates 1/16" Stayed by uptake Working pressure of
 Working pressure of furnace by rules 124 lbs Diameter of uptake 12" Thickness of uptake plates 3/8" Thickness of water

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of work in shops— 1899. Dec 21. 1900 Jan. 10 Feb 12. Mar 12. 29
 During erection on board vessel—
 building
 Total No. of visits 5

General Remarks (State quality of workmanship, opinions as to class, &c.) The donkey boiler vessel has been constructed under special survey materials & workmanship are found to be good.

Certificate (if required) to be sent to

The amount of Entry Fee, £ 2 Special £ 31 March 1900
 Donkey Boiler Fee £ 22 2
 Travelling Expenses (if any) £ 16 6
 When applied for, 31st March, 1900
 When received, 26/4/1900 21.8.1900

Committee's Minute

Assigned

Thomas L. L. Engineer Surveyor to Lloyd's Register of British & Foreign Shipping

REPORT

old at Lall Borne
 Built at Lall Borne
 By S. S.

as per Section 28

Descriptions of Engines

ers
 as per rule. Diameter
 shaft as fitted
 Pitch of screw
 Diameter of ditto
 Diameter of ditto
 Sizes of Pumps

Connected to

on pipes fitted with roses
 with the sea direct on the skin of
 ently high on the ship's side to be seen
 with a discharge valve always accessible
 ried through the bunkers
 , valves, and pumps in connection
 on pipes, cocks, and valves arranged
 ube, propeller, screw shaft, and a
 watertight door

(Letter for record)

Boilers will be

Can each boiler be worked

Smallest distance between

Material of shell plates

holes in long. seams

length of longitudinal joint

g ring

top bottom Thickness of plate

furnace by the rules

to: Sides Back

Diameter at smallest part

Thickness Pitch of stays

lest part Area supported

aterial of Lower back plate

Pitch of tubes

de water spaces

at centre

by rules Superheated

Diameter Length

h of rivets Working pressure

igs Distance between rings

of end plates Area