

REPORT ON MACHINERY.

3068

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in Survey held at Belfast & Barrow	Date, first Survey 29 th Aug 1873	Last Survey 4 th July 1884
Book.	(Number of Visits 20)	Received at London Office Rec'd 1 st July, 1884 Tons 2462.500 1816.44
on the S.S. Lord O'Neill		
C.H. Baskill Built at Belfast	By whom built Harland Wolff	When built 1884
s made at Belfast	By whom made "	when made 1884
s made at Barrow	By whom made The Bros Ship Building Co Ltd	when made 1884
ered Horse Power 350	Owners Irish Ship Owners C° (Linen Port belonging to Belfast)	

NES, &c.-

tion of Engines Compound Inverted Surface Condensing.

er of Cylinders 37 - 72 Length of Stroke 45 - No. of Rev. per minute 60 Point of Cut off, High Pressure Variable Low Pressure 26°

er of Screw shaft 13 Diam. of Tunnel shaft 12 Diam. of Crank shaft journals 13 Diam. of Crank pin 13 size of Crank webs 18 x 10

er of screw 16 - 6 Pitch of screw 19 - 0 No. of blades 4 state whether moveable yes total surface about 743 sq ft

Feed pumps Two diameter of ditto 4 Stroke 26 Can one be overhauled while the other is at work yes

Bilge pumps Two diameter of ditto 4 Stroke 26 Can one be overhauled while the other is at work yes

do they pump from engine room fore & forecastle holds, after hold, after well & tunnel well.

Donkey Engines 2 double acting Size of Pumps 3 dia x 4 dia x 9 stroke 3 x 5 (Single acting) Where do they pump from smallest pump from sea, hot tanks & distilling apparatus, feed water from sea hot well, tanks & as bilge pump, ballast, from tank only.

the bilge suction pipes fitted with roses yes Are the roses always accessible yes Are the sluices on Engine room bulkheads always accessible off-bulkhead

bilge injections One and sizes 4/2 dia Are they connected to condenser, or to circulating pump Circulating pump.

re the pumps worked by levers from bolt engines.

connections with the sea direct on the skin of the ship yes Are they Valves or Cocks ~~both valves and cocks~~

fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yes Are the discharge pipes above or below the deep water line above discharge point ballast donkey.

each fitted with a discharge valve always accessible on the plating of the vessel yes Are the blow off cocks fitted with a spigot and brass covering plate yes

pipes are carried through the bunkers ~~sections to fore cargo~~ How are they protected ~~Wood Casing~~

pipes, cocks, valves, and pumps in connection with the machinery accessible at all times yes

pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges yes

were stern tube, propeller, screw shaft, and all connections examined in dry dock before launching.

screw shaft tunnel watertight yes and fitted with a sluice door yes worked from top platform.

ERS, &c.-

of Boilers Three Description Cylindrical multi-tubular Whether Steel or Iron Steel.

g Pressure 90 lbs Tested by hydraulic pressure to 180 lbs Date of test 21/3/84.

tion of superheating apparatus or steam chest None fitted

h boiler be worked separately yes Can the superheater be shut off and the boiler worked separately no superheater?

square feet of fire grate surface in each boiler 61.8 Description of safety valves Spring No. to each boiler Two

each valve 15.94 Are they fitted with easing gear yes No. of safety valves to superheater ✓ area of each valve ✓

fitted with easing gear ✓ Smallest distance between boilers and bunkers or woodwork 12 Diameter of boilers 14 - 14

of boilers 10 - 0 description of riveting of shell long. seams ~~double butt, double end~~ circum. seams ~~lap, double rivet~~ Thickness of shell plates 3/16

r of rivet holes 1/8 whether punched or drilled drilled pitch of rivets 4 1/2 Lap of plating butts ~~shops~~ 11 3/8 wide

age of strength of longitudinal joint 75.02 working pressure of shell by rules 92.1 lbs size of manholes in shell 16 x 12

compensating rings 24 x 24 x 3/16 No. of Furnaces in each boiler Three

diameter 3 - 6 length, top 5.9 ft bottom 9 - 0 thickness of plates 1/2 description of joint ~~double butt, single end~~ If rings are fitted ~~bottom~~ ~~top~~ ~~seamed by L. lines~~

length between rings 5.9 ft working pressure of furnace by the rules 90 lbs combustion chamber plating, thickness, sides 1/2 back 1/2 top 1/2

stays to ditto, sides 9 1/2 x 7 1/2 back 9 x 9 top 9 1/2 x 7 1/2 If stays are fitted with nuts or riveted heads Nuts working pressure of plating by

92 lbs Diameter of stays at smallest part 1/3/8 working pressure of ditto by rules 97.5 lbs end plates in steam space, thickness 3/4

stays to ditto 17 x 17 how stays are secured ~~double nut, pin, lockers~~ working pressure by rules 80 lbs diameter of stays at

est part 2 5/8 working pressure by rules 105 lbs Front plates at bottom, thickness 3/4 Back plates, thickness 3/4

pitch of stays ~~about~~ 12 working pressure by rules 140 lbs Diameter of tubes 3 1/4 pitch of tubes 14 1/2 thickness of tube

, front 1/16 back 1/16 how stayed Stay Tubes pitch of stays 13 1/2 x 9 width of water spaces 1 1/4

of Superheater or Steam chest ✓ length ✓ thickness of plates ✓ description of longitudinal joint ✓ diam. of rivet holes ✓

rivets ✓ working pressure of shell by rules ✓ diameter of flue ✓ thickness of plates ✓ If stiffened with rings ✓

between rings ✓ working pressure by rules ✓ end plates of superheater, or steam chest; thickness ✓ how stayed ✓

Superheater or steam chest; how connected to boiler ✓

DONKEY BOILER— Description *two donkey boilers fitted to this vessel.*

Made at	by whom made	when made	where fixed	description of
Working pressure	tested by hydraulic pressure to	No. of Certificate	fire grate area	
valves	No. of safety valves	area of each	if fitted with easing gear	if steam from main boil
enter the donkey boiler	diameter of donkey boiler	length	description of riveting	
Thickness of shell plates	diameter of rivet holes	whether punched or drilled	pitch of rivets	lap of plating
per centage of strength of joint	thickness of crown plates	stayed by		
Diameter of furnace, top	bottom	length of furnace	thickness of plates	description of joint
Thickness of furnace crown plates	stayed by			working pressure of shell by rules
Working pressure of furnace by rules		diameter of uptake	thickness of plates	thickness of water tubes

SPARE GEAR. State the articles supplied:— in addition to the Spare gear required by the or the following articles have been supplied:— 1 set propeller blades, 1 air pump blade for high & low pressure expansion slide valves, 2 Safety valve springs, 6 riving bolts, Spare studs for cylinder covers, glands & other parts of engine.

The foregoing is a correct description,

J.P.W.

Marland & Thaloff Manufacturer.

General Remarks (State quality of workmanship, opinions as to class, &c.)

Material and Workmanship good and satisfactory

The Machinery and Boilers of this vessel are in good order and safe working condition and, in my opinion, eligible to the classification. [Red] Lloyd's No. 7-81 assigned

The amount of Entry Fee £ 3: - : received by me,

Special £ 34: 10: -

Donkey Boiler Fee £ - : - :

Certificate (if required) £ - : - : 9.7.1884

To be sent as per margin.

(Travelling Expenses, if any, £ 9-9-0)

Committee's Minute

FRIDAY 11 JULY 1884

Dimonau Pittoe
Engineer Surveyor to Lloyd's Register of British & Foreign Ships
Belfast

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Lloyd's Register
Foundation