

Continuation of
REPORT ON MACHINERY.

No. 719

Port of Barrow in Furness

WED. MAY 6 1896
Received at London Office

No. in Survey held at Barrow Date, first Survey _____ Last Survey 18

Reg. Book. on the Steel Screw Steamer "Blau Lindsay" (Number of Visits _____) Tons { Gross _____ Net _____

Master _____ Built at _____ By whom built _____ When built _____

Engines made at Donkey By whom made _____ when made _____

Boilers made at Barrow By whom made Naval Constr. & Armaments Co. Ltd. when made 1891

Registered Horse Power _____ Owners _____ Port belonging to _____

Nom. Horse Power as per Section 28 _____

ENGINES, &c.— Description of Engines _____ No. of Cylinders _____

Diameter of Cylinders _____ Length of Stroke _____ Revolutions per minute _____ Diameter of Screw shaft _____ as per rule _____ as fitted _____

Diameter of Tunnel shaft _____ Diameter of Crank shaft journals _____ Diameter of Crank pin _____ Size of Crank webs _____

Diameter of screw _____ Pitch of screw _____ No. of blades _____ State whether moveable _____ Total surface _____

No. of Feed pumps _____ Diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____

No. of Bilge pumps _____ Diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____

No. of Donkey Engines _____ Sizes of Pumps _____ No. and size of Suctions connected to both Bilge and Donkey pumps _____

Engine Room _____ In Holds, &c. _____

No. of bilge injections _____ sizes _____ Connected to condenser, or to circulating pump _____ Is a separate donkey suction fitted in Engine room & size _____

Are all the bilge suction pipes fitted with roses _____ Are the roses in Engine room always accessible _____ Are the sluices on Engine room bulkheads always accessible _____

Are all connections with the sea direct on the skin of the ship _____ Are they Valves or Cocks _____

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

What pipes are carried through the bunkers _____ 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 _____

When were stern tube, propeller, screw shaft, and all connections examined in dry dock _____ Is the screw shaft tunnel watertight _____

Is it fitted with a watertight door _____ worked from _____

BOILERS, &c.— (Letter for record 3) Total Heating Surface of Boilers Donkey 730 19 ft

No. and Description of Boilers One Donkey One Multitubular Working Pressure 100 Tested by hydraulic pressure to 200

Date of test 31-1-96 Can each boiler be worked separately Area of fire grate in each boiler 31.16 ft No. and Description of safety valves to _____

in boiler Two Spring Loaded Area of each valve 4.09 Pressure to which they are adjusted 100 lbs Are they fitted _____

with easing gear yes Smallest distance between boilers or uptakes and bunkers or woodwork 12 Mean diameter of boilers 2-6

Length 9-0 Material of shell plates Steel Thickness 5/8 Description of riveting: circum. seams Double long seams Cap Triple

Diameter of rivet holes in long. seams 27/32 Pitch of rivets 27/8 1 5/16 Lap of plates on width of butt straps 6 3/4

Percentage of strength of longitudinal joint _____ Working pressure of shell by rules 101.5 Size of manhole in shell 16" x 12"

Use of compensating ring 2-8 x 2-4 No. and Description of Furnaces in each boiler Two Plain Material Steel Outside diameter 2-11

Length of plain part _____ Thickness of plates _____ Description of longitudinal joint Weather straps No. of strengthening rings _____

Working pressure of furnace by the rules 111 Combustion chamber plates: Material Steel Thickness: Sides 5/8 Back 3/4 Top 3/8 Bottom 7/16

Pitch of stays to ditto: Sides 8 3/4 Back 8 3/4 Top 8 3/4 If stays are fitted with nuts or riveted heads Quits Working pressure by rules 112

Material of stays Steel Diameter at smallest part 1 5/16 Area supported by each stay 76.5 Working pressure by rules 105.8 End plates in steam space: _____

Material Steel Thickness 1 3/16 Pitch of stays 14 1/2 How are stays secured 10 Quits Working pressure by rules 149 Material of stays Steel

Diameter at smallest part 1 7/8 Area supported by each stay 210 Working pressure by rules 117 Material of Front plates at bottom Steel

Thickness 3/4 Material of Lower back plate Steel Thickness 7/16 Greatest pitch of stays 13 1/2 Working pressure of plate by rules _____

Diameter of tubes 3 Pitch of tubes 4 1/4 x 4 1/4 Material of tube plates Steel Thickness: Front 3/4 Back 7/16 Mean pitch of stays 11 3/4

Pitch across wide water spaces 14 1/2 Working pressures by rules 102.7 Girders to Chamber tops: Material Steel Depth and _____

Thickness of girder at centre 6 x 2 x 2 Length as per rule 24 1/2 Distance apart 8 3/4 Number and pitch of Stays in each Two 8 3/4

Working pressure by rules 105.6 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 _____

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

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 _____

Gas Sasthose
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DONKEY BOILER— Description _____
 Made at _____ By whom made _____ When made _____ Where fixed _____
 Working pressure _____ tested by hydraulic pressure to _____ No. of Certificate _____ 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 from main boilers can
 enter the donkey boiler _____ Diameter of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____
 Description of riveting long. seams _____ Diameter of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____
 Lap of plating _____ Per centage of strength of joint _____ Rivets _____ Thickness of shell crown plates _____ Radius of do. _____ No. of Stays to _____
 Dia. of stays _____ Diameter of furnace Top _____ Bottom _____ Length of furnace _____ Thickness of furnace plates _____ Description
 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 uptake plates _____ Thickness of water tubes _____

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,
 for **NAVAL CONSTRUCTION & ARMAMENTS Co., Ltd.** Manufacturer.

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

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

The Surveyors are requested not to write on or below the space for Committee's Minute.

Certificate, (if required) to be sent to

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

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

Committee's Minute **FRI, MAY 8 1896**

Assigned



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