

REPORT ON MACHINERY.

No. 65661

Received at London Office

SAT. 8 APL 1911

Date of writing Report 5 APR 1911 When handed in at Local Office 5 APR 1911 Port of LIVERPOOL

No. in Survey held at Birkenhead Date, First Survey Dec 4. 1909 Last Survey Nov 27 1910
Reg. Book. on the S. S. Highland Loch (Number of Visits 99)

Master Birkenhead Built at Birkenhead By whom built Cammell Laird & Co. Ltd. When built 1911

Engines made at Birkenhead By whom made Cammell Laird & Co. Ltd. when made 1911

Boilers made at Birkenhead By whom made Cammell Laird & Co. Ltd. when made 1911

Registered Horse Power Owners Nelson Line Ltd. Port belonging to London

Nom. Horse Power as per Section 28 872 Is Refrigerating Machinery fitted for cargo purposes yes Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Inverted Vertical Triple Expansion No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 31" 51" 86" Length of Stroke 54" Revs. per minute 75-82 Dia. of Screw shaft 17 3/4" Material of screw shaft steel

Is the screw shaft fitted with a continuous liner the whole length of the stern tube yes Is the after end of the liner made water tight

in the propeller boss yes 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 yes If two

liners are fitted, is the shaft lapped or protected between the liners — Length of stern bush 6'-0 5/8"

Dia. of Tunnel shaft 16" Dia. of Crank shaft journals 16 1/8" Dia. of Crank pin 17 1/2" Size of Crank webs 11 1/2" Dia. of thrust shaft under

collars 17 1/2" Dia. of screw 19'-0" Pitch of Screw 19'-6" No. of Blades 4 State whether moveable yes Total surface 115 sq ft

No. of Feed pumps 2 Diameter of ditto 9" Stroke 21" Can one be overhauled while the other is at work yes

No. of Bilge pumps 2 Diameter of ditto 5" Stroke 30" Can one be overhauled while the other is at work yes

No. of Donkey Engines Four Sizes of Pumps 8 1/2" 5 1/2" 9" 11 1/2" 7 1/2" 5 1/2" 6" 4 1/2" No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room Four 3 1/2" In Holds, &c. Two 3 1/2" in each hold + 1 - 2 3/4"

in tunnel well. No. of Bilge Injections 1 sizes 10" Connected to condenser, or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size 1 - 3 1/2"

Are all the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible none

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

Are they 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 yes

Are they 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

What pipes are carried through the bunkers none How are they protected —

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes

Dates of examination of completion of fitting of Sea Connections 29. 12. 10 of Stern Tube 14. 9. 10 Screw shaft and Propeller 2. 3. 11

Is the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from Top platform

BOILERS, &c.—(Letter for record (S)) Manufacturers of Steel Colville & Sons, Steel Co. of Scotland

Total Heating Surface of Boilers 10300 sq ft Is Forced Draft fitted yes No. and Description of Boilers 3 S.B. Mult. Cylindrical

Working Pressure 210 lbs Tested by hydraulic pressure to 420 lbs Date of test 27. 10. 10 No. of Certificates 1923

Can each boiler be worked separately yes Area of fire grate in each boiler 74.7 sq ft No. and Description of Safety Valves to

each boiler Two Direct Spring Area of each valve 12.18 sq in Pressure to which they are adjusted 210 lbs Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 12" Mean dia. of boilers 16.6" Length 12'-0" Material of shell plates steel

Thickness 1 1/4" Range of tensile strength 30.5-32 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams D.P. Lap

long. seams D.P. Lap Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 10" Lap of plates or width of butt straps 1'-11 1/2"

Per centages of strength of longitudinal joint plate 95.7% Working pressure of shell by rules 217 Size of manhole in shell 16" x 12"

Size of compensating ring 9 1/2" x 1 1/4" No. and Description of Furnaces in each boiler 4 Morrison Material steel Outside diameter 3'-9"

Length of plain part top 27" Thickness of plates bottom 32" Description of longitudinal joint weld No. of strengthening rings 1

Working pressure of furnace by the rules 237 Combustion chamber plates: Material steel Thickness: Sides 5" Back 5" Top 5" Bottom 1"

Pitch of stays to ditto: Sides 8 1/2" x 7 1/2" Back 8 1/2" x 7 1/2" Top 8" x 7 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 212

Material of stays steel Diameter at smallest part 1.46" Area supported by each stay 63" Working pressure by rules 212 End plates in steam space:

Material steel Thickness 1 1/2" Pitch of stays 17" x 17 1/2" How are stays secured nut and wash Working pressure by rules 213 Material of stays steel

Diameter at smallest part 2 1/2" Area supported by each stay 298 + 252 Working pressure by rules 237 Material of Front plates at bottom steel

Thickness 1" Material of Lower back plate steel Thickness 1" Greatest pitch of stays 14 1/2" Working pressure of plate by rules 213

Diameter of tubes 2 1/2" Pitch of tubes 3 5/8" Material of tube plates steel Thickness: Front 1" Back 1 1/8" Mean pitch of stays 7 1/4"

Pitch across wide water spaces 13 1/2" Working pressures by rules 210 Girders to Chamber tops: Material steel Depth and

thickness of girder at centre 7 1/2" 2 1/2" Length as per rule 2'-7 1/2" Distance apart 8" Number and pitch of stays in each 3 - 7 1/2"

Working pressure by rules 212 Superheater or Steam chest; how connected to boiler none 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 easing gear

VERTICAL DONKEY BOILER— Manufacturers of Steel

No. _____ Description _____ When made _____ Where fixed _____
 Made at _____ By whom made _____
 Working pressure tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Fire grate area _____ Description of Safety _____
 Valves _____ No. of Safety Valves _____ Area of each _____ Pressure to which they are adjusted _____ Date of adjustment _____
 If fitted with easing gear _____ If steam from main boilers can enter the donkey boiler _____ Dia. of donkey boiler _____ Length _____
 Material of shell plates _____ Thickness _____ Range of tensile strength _____ Descrip. of riveting long. seams _____ Rivets _____ Plates _____
 Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____ Lap of plating _____ Per centage of strength of joint _____
 Working pressure of shell by rules _____ Thickness of shell crown plates _____ Radius of do. _____ No. of stays to do. _____ Dia. of stays _____
 Diameter of furnace Top _____ Bottom _____ Length of furnace _____ Thickness of furnace plates _____ Description of joint _____
 Working pressure of furnace by rules _____ Thickness of furnace crown plates _____ Radius of do. _____ Stayed by _____
 Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____ Dates of survey _____

SPARE GEAR. State the articles supplied: *crankshaft, 1 set each of top & bottom end braces, 2 top & 2 bottom end bolts & nuts, 2 main bearing bolts & nuts, 1 set of coupling bolts, 6 junk ring bolts, 1 spring for each type of loaded valve, 1 set of feed & Bilge pump valves, assortment of condenser tubes, studs, bolts & nuts & details etc. screw shaft & 2 propeller blades.*

The foregoing is a correct description,

For **CAMMELL LAIRD AND COMPANY LIMITED**

Manufacturer.

J. H. Sibers

Dates of Survey while building: *1909. Dec 7, 8, 11, 14, 15, 16, 20, 22, 23, 25, 27, 28, 30, 31. 1910. Jan 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31. Feb 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31. Mar 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31. Apr 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31. May 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31. Jun 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31. Jul 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31. Aug 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31. Sep 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31.*

Dates of Examination of principal parts: *1910. Cylinders 1/7, 22/8, 25/11. Slides 22/8 - 7/9 - 1910. Covers 7/9/1910. Pistons 22/7/1910. Rods 7/7-7/9-1910. Connecting rods 7/7/1910. Crank shaft 24/5-24/6-1910. Thrust shaft 9/9/1910. Tunnel shafts 9/9/1910. Screw shaft 9/9/1910. Propeller 9/6/1910. Stern tube 22/8/1910. Steam pipes tested 15-2-1911. Engine and boiler seatings 14-9-1910. Engines holding down bolts 14-2-1911. Completion of pumping arrangements 9-3-1911. Boilers fixed 2-3-1911. Engines tried under steam 11-3-1911. Main boiler safety valves adjusted 3-3-1911. Thickness of adjusting washers 1/16, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1. Engines tried under steam 11-3-1911. Material of Crank shaft steel. Identification Mark on Do. 7/100, 7/101, 7/102, 7/103, 7/104, 7/105, 7/106, 7/107, 7/108, 7/109, 7/110, 7/111, 7/112, 7/113, 7/114, 7/115, 7/116, 7/117, 7/118, 7/119, 7/120, 7/121, 7/122, 7/123, 7/124, 7/125, 7/126, 7/127, 7/128, 7/129, 7/130, 7/131, 7/132, 7/133, 7/134, 7/135, 7/136, 7/137, 7/138, 7/139, 7/140, 7/141, 7/142, 7/143, 7/144, 7/145, 7/146, 7/147, 7/148, 7/149, 7/150, 7/151, 7/152, 7/153, 7/154, 7/155, 7/156, 7/157, 7/158, 7/159, 7/160, 7/161, 7/162, 7/163, 7/164, 7/165, 7/166, 7/167, 7/168, 7/169, 7/170, 7/171, 7/172, 7/173, 7/174, 7/175, 7/176, 7/177, 7/178, 7/179, 7/180, 7/181, 7/182, 7/183, 7/184, 7/185, 7/186, 7/187, 7/188, 7/189, 7/190, 7/191, 7/192, 7/193, 7/194, 7/195, 7/196, 7/197, 7/198, 7/199, 7/200, 7/201, 7/202, 7/203, 7/204, 7/205, 7/206, 7/207, 7/208, 7/209, 7/210, 7/211, 7/212, 7/213, 7/214, 7/215, 7/216, 7/217, 7/218, 7/219, 7/220, 7/221, 7/222, 7/223, 7/224, 7/225, 7/226, 7/227, 7/228, 7/229, 7/230, 7/231, 7/232, 7/233, 7/234, 7/235, 7/236, 7/237, 7/238, 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