

REPORT ON MACHINERY.

No. 7726
THU. DEC. 28. 1911

Date of writing Report 19... When handed in at Local Office 27/12 10 11 Port of Grimsby
 No. in Survey held at Grimsby Date, First Survey 6/7 Last Survey 20/7/12 1911
 Reg. Book. 694up. on the steam trawler "Skuli Fogeti" (Number of Visits 35)
 Master Selby Built at Selby By whom built Cochrane Sons When built 1911
 Engines made at Grimsby By whom made D. Central Co-operative Eng. Ship Repairing Co. Ltd. when made 1911
 Boilers made at do. By whom made do. when made 1911
 Registered Horse Power 80 Owners Arkiveidafjelagid allianci Port belonging to Levjak
 Nom. Horse Power as per Section 28 80 Is Refrigerating Machinery fitted for cargo purposes no. Is Electric Light fitted no.

ENGINES, &c.—Description of Engines Triple expansion inverted No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 13 13 17 Length of Stroke 24 Revs. per minute 7.6 Dia. of Screw shaft 7.5 Material of screw shaft Iron
 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 no 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 no Length of stern bush 36"
 Dia. of Tunnel shaft 6.62 Dia. of Crank shaft journals 6.95 Dia. of Crank pin 7 1/2 Size of Crank webs 4 1/2 x 14 Dia. of thrust shaft under collars 7 1/2 Dia. of screw 9-3 Pitch of Screw 11-6 No. of Blades 4 State whether moveable no Total surface 320"
 No. of Feed pumps 2 Diameter of ditto 2 1/2 Stroke 12 Can one be overhauled while the other is at work yes
 No. of Bilge pumps 2 Diameter of ditto 2 1/2 Stroke 12 Can one be overhauled while the other is at work yes
 No. of Donkey Engines one Sizes of Pumps 6 x 3 1/2 x 6 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 2 sea, hotwell, bilge In Holds, &c. 2 forehold and foreroom (2)
 No. of Bilge Injections 1 sizes 3" Connected to condenser, or to circulating pump no Is a separate Donkey Suction fitted in Engine room & size 2 1/2" ejector
 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 above
 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 steam + exhaust How are they protected wood casings
 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 22/11/11 of Stern Tube 21/11/11 Screw shaft and Propeller 21/11/11
 Is the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from no

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Phoenix Akt. Ges. Abt. Hoerder Verein
 Total Heating Surface of Boilers 1332 Is Forced Draft fitted no No. and Description of Boilers one S.E. return tube
 Working Pressure 180 lb. Tested by hydraulic pressure to 360 lb Date of test 3/11/11 No. of Certificate 98
 Can each boiler be worked separately yes Area of fire grate in each boiler 370" No. and Description of Safety Valves to each boiler 2 direct spring Area of each valve 3.980" Pressure to which they are adjusted 183 lb Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 8" Mean dia. of boilers 13-6" Length 10-6" Material of shell plates 5"
 Thickness 1 1/8" Range of tensile strength 28/32 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams double
 long. seams treble butt Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 1/2" Lap of plates on width of butt straps 18 1/8"
 Per centages of strength of longitudinal joint rivets 95.6 Working pressure of shell by rules 185 lb Size of manhole in shell 12 x 16"
 Size of compensating ring 16 x 16 x 1 1/8" No. and Description of Furnaces in each boiler 3 plain Material 5" Outside diameter 38"
 Length of plain part top 66 bottom 106 Thickness of plates crown 3 1/2" bottom 3 1/2" Description of longitudinal joint welded No. of strengthening rings none
 Working pressure of furnace by the rules 180 Combustion chamber plates: Material 5" Thickness: Sides 1 1/6" Back 1 1/6" Top 1 1/6" Bottom 1"
 Pitch of stays to ditto: Sides 7 1/4 x 9 Back 8 1/2 x 9 Top 7 1/4 x 9 1/2 stays are fitted with nuts or riveted heads nuts Working pressure by rules 226
 Material of stays 5" Diameter at smallest part 1.79 Area supported by each stay 43.50 Working pressure by rules 194 End plates in steam space: Material 5" Thickness 1 1/6" Pitch of stays 19 x 15 How are stays secured d. nuts + washers Working pressure by rules 183 Material of stays 5"
 Diameter at smallest part 6.1 Area supported by each stay 285 Working pressure by rules 214 Material of Front plates at bottom 5"
 Thickness 1" Material of Lower back plate 5" Thickness 1 5/8" Mean pitch of stays 13 3/4" Working pressure of plate by rules 198
 Diameter of tubes 3 1/2" Pitch of tubes 5 3/8" mean Material of tube plates 5" Thickness: Front 1" Back 7/8" Mean pitch of stays 10 3/4"
 Pitch across wide water spaces 14" Working pressures by rules 182 Girders to Chamber tops: Material 5" Depth and thickness of girder at centre 9 1/2 x 7 1/8 (2) Length as per rule 34 Distance apart 9 1/2" Number and pitch of stays in each 3-7 1/4"
 Working pressure by rules 185 Superheater or Steam chest; how connected to boiler no Can the superheater be shut off and the boiler worked separately no
 Diameter no Length no Thickness of shell plates no Material no Description of longitudinal joint no Diam. of rivet holes no Pitch of rivets no Working pressure of shell by rules no Diameter of flue no Material of flue plates no Thickness no
 If stiffened with rings no Distance between rings no Working pressure by rules no End plates: Thickness no How stayed no
 Working pressure of end plates no Area of safety valves to superheater no Are they fitted with easing gear no

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THE MARGIN.

W753-0095

VERTICAL DONKEY BOILER— Manufacturers of Steel

No. _____ Description _____

Made at _____ By whom made _____ When made _____ Where fixed _____

Working pressure tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Fire grate area _____ Description of Safety Valves _____

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 _____

Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____ Lap of plating _____ Per centage of strength of joint _____ Rivets _____ Plates _____

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:— *Two top and bottom end and main bearing bolts nuts; a set of coupling bolts nuts; a set of feed bridge & donkey valves; check & escape valves & safety valve springs; a set of air circulating pump valves bolts nuts & assorted iron.*

The foregoing is a correct description, *for Central Co. of Eng Ship Repairing Co Ltd*
 Manufacturer. *W W Single*

Dates of Survey while building

During progress of work in shops—	July 6. 19. 29	Aug 1. 3. 9. 15. 17. 23. 25. 31	Sep 9. 12. 25. 29	Oct 5. 9. 12. 16. 20. 21. 25. 27	Nov 3. 7
	15. 16. 23				
	Total No. of visits <i>35</i>				

Is the approved plan of main boiler forwarded herewith *yes*

Dates of Examination of principal parts—Cylinders	<i>HP 9/8 LP 17/8 IP 25/9</i>	Slides	<i>20/10</i>	Covers	<i>20/10</i>	Pistons	<i>25/9</i>	Rods	<i>9/9</i>
Connecting rods	<i>25/9</i>	Crank shaft	<i>20/10</i>	Thrust shaft	<i>16/11</i>	Tunnel shafts	<i>✓</i>	Screw shaft	<i>12/10</i>
Stern tube	<i>9/10</i>	Steam pipes tested	<i>11.12.11</i>	Engine and boiler seatings	<i>any at Hull 20/11/11</i>	Engines holding down bolts	<i>13/12</i>		
Completion of pumping arrangements	<i>18/12</i>	Boilers fixed	<i>11/12</i>	Engines tried under steam	<i>19/12</i>				
Main boiler safety valves adjusted	<i>19/12</i>	Thickness of adjusting washers	<i>P 3/8 S 3/8 full.</i>						
Material of Crank shaft <i>Practical with iron</i>	Identification Mark on Do.	<i>N° 426 20.10.11 C.M.</i>	Material of Thrust shaft	<i>Iron</i>	Identification Mark on Do.	<i>N° 436 16.11.11 C.M.</i>	Material of Screw shafts	<i>Iron</i>	Identification Marks on Do.
Material of Tunnel shafts	<i>✓</i>	Identification Marks on Do.	<i>✓</i>	Material of Screw shafts	<i>Iron</i>	Identification Marks on Do.	<i>12.11.11 W.H.R.</i>		
Material of Steam Pipes	<i>Solid drawn copper - 6 swg.</i>	Test pressure	<i>360 lbs.</i>						

General Remarks (State quality of workmanship, opinions as to class, &c.) *This machinery has been built under special survey, and the material and workmanship are good.*

The engines & boiler were seen fitted on board the vessel in an efficient manner, and in my opinion the machinery is eligible for the record of + LMC 12.11.

This machinery is a duplicate of St. Cambodia. Envs. report N° 7120.

The boiler is stamped

**N° 98
 LLOYD'S TEST
 360 LBS.
 3.11.11
 C.M.**

It is submitted that this vessel is eligible for THE RECORD, + LMC 12.11.

J.P.R.

*J.W.D.
 28/12/11*

Chamell

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

The amount of Entry Fee .. £ *1 : 0 : 0* When applied for, *28/12/11 C.M.*

Special £ *12 : 0 : 0*

Donkey Boiler Fee £ : : : When received, *21.2.12 J.P.R.*

Travelling Expenses (if any) £ : : :

Committee's Minute TUE. JAN. 2—1912

Assigned *thmc 12.11*



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Certificate (if required) to be sent to the Surveyors or retained not to write on or below the space for Committee's Minute.

MACHINERY CERTIFICATE
 BRITISH