

Received at London Office FRI. 12 APR. 1918

Date of writing Report Jan. 31st 18 When handed in at Local Office 19 Port of Hong Kong
 No. in Survey held at Hong Kong Date, First Survey 17/1/16 Last Survey Jan. 18th. 19 18
 Reg. Book. on the Steel Single Screw Steamer "HERMELIN" (Number of Voids 28)
 Master F. N. Tyson Built at Hong Kong By whom built Hong Kong & Whampoa Dock Co. L When built 1, 1918
 Engines made at Hong Kong By whom made Hong Kong & Whampoa Dock Co. Ld. when made 1, 1918
 Boilers made at Hong Kong By whom made Hong Kong & Whampoa Dock Co. Ld. when made 1, 1918
 Registered Horse Power Owners Brausgaard Kjoesterud & Co. Port belonging to Hong Kong
 Nom. Horse Power as per Section 28 215 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Expansion Marine Type No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 20", 33" & 54" Length of Stroke 39" Revs. per minute 80 Dia. of Screw shaft 11.6" as per rule 10.92" Material of Ingot
 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 Length of stern bush 4'6"
 Dia. of Tunnel shaft 10.21" as per rule 10.72" Dia. of Crank shaft journals 10.5" as fitted 11 Dia. of Crank pin 11" Size of Crank webs 1'9" x 7 1/2"
 collars 11" Dia. of screw 14'6" Pitch of Screw 13'6" No. of Blades 4 State whether mocenble No Total surface 58 sq. feet
 No. of Feed pumps 2 Diameter of ditto 3 1/2" Stroke 20" Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 4 Stroke 20" Can one be overhauled while the other is at work Yes
 No. of Donkey Engines Five Sizes of Pumps Weirs 5 1/2-7 1/2-15 Cir. 11 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 2 Donkey separate 3 1/2" Ballast 8x8x8 Winch Cond. 6x7x7 In Holds, &c. 2- fore hold 3" 2- aft hold 3"
 2 Main bilge pump suction 3" 1- Tunnel 2 1/2" 1- Dry tank 3 1/2"
 No. of Bilge Injections 1 sizes 7 1/2" Connected to condenser, or to circulating pump Pump Is a separate Donkey Suction fitted in Engine room & size 2- 3 1/2" dia.
 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 Yes
 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 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
 Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Upper deck

BOILERS, &c.—(Letter for record E 31/3/15 Manufacturers of Steel Hallside.

Total Heating Surface of Boilers 3552 Is Forced Draft fitted No No. and Description of Boilers Two Marine Return Tube
 Working Pressure 180 lbs. Tested by hydraulic pressure to 360 lbs. Date of test 6/11/17 No. of Certificate
 Can each boiler be worked separately Yes Area of fire grate in each boiler 59.4 No. and Description of Safety Valves to
 each boiler 1 double spring 2 1/2" Area of each valve 5.94 "Pressure to which they are adjusted 185 lbs. Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers 12" Mean dia. of boilers 14'3" Length 10'6" Material of shell plates Steel
 Thickness 1 5/16 Range of tensile strength 29-32 tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams ends D.R. laps
 long. seams Double Butt Diameter of rivet holes in long. seams 1 3/8" Pitch of rivets 9 1/4" Lap of plates or width of butt straps 1'8 1/8"
 Straps Per centages of strength of longitudinal joint rivets 91 plate 85.2 Working pressure of shell by rules 208 lbs. Size of manhole in shell 16" x 12"
 Size of compensating ring 3'2" x 2'10" No. and Description of Furnaces in each boiler 3 Fox Material Steel Outside diameter 3'10"
 Length of plain part top Thickness of plates 9/16" Description of longitudinal joint Welded No. of strengthening rings
 Working pressure of furnace by the rules 191 lbs Combustion chamber plates: Material Steel Thickness: Sides 5/8" Back 9/16" Top 5/8" Bottom 1"
 Pitch of stays to ditto: Sides 8 3/4" x 7 1/2" Back 7 1/2" x 7 1/4" Top 8 3/4" x 8" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules S. 203
 Material of stays Steel Area at smallest part 8.1.73 "Area supported by each stay 5.4.4 Working pressure by rules S. 210 T. 192
 Material Steel Thickness 1 1/16" Pitch of stays 19 x 18 1/2" How are stays secured Nuts & riveted washers Working pressure by rules 181 lbs Material of stays Steel
 Area at smallest part 7.85 "Area supported by each stay 35.1.5 "Working pressure by rules 201 Material of Front plates at bottom Steel
 Thickness 3/32 Material of Lower back plate Steel Thickness 13/16 Greatest pitch of stays 13 1/2" x 7 1/4" Working pressure of plate by rules 194 lbs.
 Diameter of tubes 3 1/2" Pitch of tubes 4 3/4" Material of tube plates Steel Thickness: Front 31/32" Back 3/4" Mean pitch of stays 9 1/2" x 9 1/2"
 Pitch across wide water spaces 14" Working pressures by rules F - 184 Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 8 3/4" x 1 1/2" Length as per rule 32" Distance apart 8 3/4" Number and pitch of stays in each 3 - 8" pitch
 Working pressure by rules 188 lbs Steam dome: description of joint to shell None % of strength of joint
 Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
 Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
 Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

IS A DONKEY BOILER FITTED? No

If so, is a report now forwarded? -

SPARE GEAR. State the articles supplied:—1 cast iron propeller, 1 propeller shaft complete, 1 set of crank pin bushes for one rod, 2 bolts and nuts for one rod, 2 bolts and nuts for crosshead bushes, 2 main bearing bolts and nuts, 1 set of bolts and nuts for one crank shaft coupling, 2 eccentric strap bolt and nuts, 6 piston junk studs and nuts, 6 cylinder cover studs and nuts, 6 casing door studs and nut 3 dozen studs and nuts assorted, 100 black bolts and nuts assorted, 12 muntz metal bolts and nuts assorted, 2 main engine feed pump valves and seats, 2 main engine bilge pump valves and seats, 1 air pump bucket and head valve complete with guards and metallic valves, 12 spare glasses for Klinger gauges, 1 impeller and 1 spindle for centrifugal circulating pump, 1 escape valve spring of each size 50 condenser tubes, 100 condenser ferrules, One half set of valves and seats for Lamont Ballast pump 8 x 8 x 8, One half set of valves and seats for General Service Pump 7 x 5 x 7, One half set of valve and seats for winch condenser circulating pump 6 x 7 x 7, One half set of valves and seats for one Weir Feed pump, **BOILER SPARE GEAR** Firebars sufficient for three furnaces of main boilers and 2 wood patterns for same, 12 plain boiler tubes and 6 stays tubes, Six patent tube stoppers, 6 rods, nuts and washers for plain stoppers for boiler tubes, 2 set asbestos joints for manhole doors, 12 ordinary gauge glasses for main boilers, 4 dozen woodite washers, 2 safety valve springs for main boilers, 2 check valves for main boilers.

The foregoing is a correct description,

HONGKONG & WHAMPOA DOCK CO., LTD.

R. M. Dyer
Chief Manager

Manufacturer.

Dates of Survey while building { During progress of work in shops -- Jan. 17, Feb. 8, Jun. 13, 20, Aug. 13, Sept. 11, 1916. Jan. 13, Feb. 20, Jul. 13
During erection on board vessel -- Sept. 3, 4, Oct. 1, 9, 10, 16, 19, 30 Nov. 6, 12, 20, 1917
Total No. of visits Dec. 4, 6, 13, 15, 1917. Jan. 3, 8, 10, and 18th. 1918. 28

Is the approved plan of main boiler forwarded herewith -

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 3/9/17 Slides 3/9/17 Covers 3/9/17 Pistons 3/9/17 Rods 3/9/17
Connecting rods 3/9/17 Crank shaft 19/10/17 Thrust shaft 19/10/17 Tunnel shafts 19/10/17 Screw shaft 19/10/17 Propeller 19/10/17
Stern tube 19/10/17 Steam pipes tested 15/12/17 Engine and boiler seatings 20/11/17 Engines holding down bolts 4/12/17
Completion of pumping arrangements 3/1/18 Boilers fixed 8/1/18 Engines tried under steam 10/1/18
Completion of fitting sea connections 10/10/17 Stern tube 10/10/17 Screw shaft and propeller 10/10/17
Main boiler safety valves adjusted 10/1/18 Thickness of adjusting washers Starboard Boiler 15 32 Pt. Br. 3
Material of Crank shaft Ing. Stl Identification Mark on Do. G.A.H. Material of Thrust shaft Ing. Stl Identification Mark on Do. 122 HKg.
Material of Tunnel shafts Ing. Stl Identification Marks on Do. 121 HKg Material of Screw shafts Ing. Stl Identification Marks on Do. 120 & 132
Material of Steam Pipes Solid drawn copper ✓ Test pressure 500 lbs. ✓
Is an installation fitted for burning oil fuel No ✓ Is the flash point of the oil to be used over 150°F. -
Have the requirements of Section 49 of the Rules been complied with -
Is this machinery duplicate of a previous case Yes ✓ If so, state name of vessel "HELIKON" Rpt. No. 4596. "PROSPER" Rpt. No. 46

General Remarks (State quality of workmanship, opinions as to class, &c. The workmanship is good and it is)

recommended that the vessel be classed with Lloyd's Machinery Certificate and the record of

~~L.M.C. 1, 1918~~ be made in the Register Book.

IDENTIFICATION MARKS ON BOILERS

No. 58 HKg.
LLOYD'S TEST
360 lbs.
6-11-17
J.L.

No. 59 HKg.
LLOYD'S TEST
360 lbs.
6-11-17
J.L.

Boilers same as "KWAI SANG", "HELIKON", "CHAK SANG" and
"PROSPER".

It is submitted that
this vessel is eligible for
THE RECORD. + L.M.C. 1. 18.

The amount of Entry Fee ... £ 30.00 : When applied for,
Special ... £ 383.00 : 25/1 1918
Donkey Boiler Fee £ : :
Electric Light £ : :
& Travelling Expenses (if any) £ : : 8/20 1918
included

Committee's Minute

TUE APR. 16 1918.

Assigned

+ L. M. C. 1. 18

Engineer Surveyor to Lloyd's Register of Shipping.



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Foundation