

No. 8450.
THU. 20 SEP. 1923

Report 18th Sept 1923 When handed in at Local Office 19th Sept 1923 Port of Bundee
Key held at Bundee Date, First Survey Feb. 9th Last Survey 15th Sept 1923
(Number of Visits 48.)

T.S.S. "Assyrian"		T.S.S. "Hitz"		T.S.S. "Hitz"		T.S.S. "Hitz"	
Built at		By whom built		When built		Gross Tons	
Hamburg		Blohm + Voss		1914-8		Net Tons	
at Dundee	By whom made	Cooper & Greig Ltd.	Engs No 253/4	when made	1923		
at Glasgow	By whom made	A. Stephen & Sons.	Bhs No 983.	when made	1922		
orse Power	Owners	Ellerman Lines Ltd.	Port belonging to	Liverpool			
ower as per Section 28	280 ✓	Is Refrigerating Machinery fitted for cargo purposes	No	Is Electric Light fitted	Yes		

&c. — Description of Engines *Triple Expansion (Twin screw)* No. of Cylinders *6* No. of Cranks *6*
 ders *16" x 26 1/2" x 44"* Length of Stroke *30* Revs. per minute *110-115* Dia. of Screw shaft *as per rule* Material of screw shaft *as fitted*
 shaft fitted with a continuous liner the whole length of the stern tube *✓* Is the after end of the liner made water tight
 ler boss *✓* If the liner is in more than one length are the joints burned *✓* If the liner does not fit tightly at the part
 earings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive *✓* If two
 ed, is the shaft lapped or protected between the liners *✓* Length of stern bush *✓*
 shaft *as per rule 8.07* Dia. of Crank shaft journals *as per rule 8.475* Dia. of Crank pin *8 1/2* Size of Crank webs *1 1/4" x 5 1/2"* Dia. of thrust shaft under
 as fitted *✓* as fitted *8 1/2*
 Dia. of screw *12'-0"* Pitch of Screw *10'-9"* No. of Blades *3* State whether moveable *No* Total surface *38*
 pumps *2* Diameter of ditto *23/4* Stroke *15"* Can one be overhauled while the other is at work *Yes*
 pumps *2* Diameter of ditto *23/4* Stroke *15"* Can one be overhauled while the other is at work *Yes*
 y Engines *3* Sizes of Pumps *GENERAL 9x11x10* No. and size of Sections connected to both Bilge and Donkey pumps
 oom *4 @ 3 1/2"* WELL *1 @ 3 1/2"* Hat in *Two WEIRS 8x5x8* In Holds, &c. No. 1 *2 @ 3 1/2"* No. 2 *2 @ 3 1/2"* Cross bunkers
 No. 3 *3 @ 3 1/2"* No. 4 *3 @ 3 1/2"* Tunnel *3 @ 3 1/2"* well in No 2 Hold *1 @ 3 1/2"*
 ections *2* sizes *5 1/2"* Connected to condenser, or to circulating pump *C. P.* Is a separate Donkey Suction fitted in Engine room & size *Yes 4"*
 e 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*
 tions with the sea direct on the skin of the ship *Yes* Are they Valves or Cocks *Both*
 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*
 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*
 re carried through the bunkers *Forward Bilge suction* How are they protected *Strong wood casings*
 s, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times *Yes*
 Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges *Yes*
 Shaft Tunnel watertight *Yes* Is it fitted with a watertight door *Yes* worked from *Upper deck level*

&c. — (Letter for record) Manufacturers of Steel
 ng Surface of Boilers 5034 Is Forced Draft fitted No. and Description of Boilers Two single ended multitubular
 ressure 180 lbs. Tested by hydraulic pressure to Date of test No. of Certificate
 be worked separately Yes Area of fire grate in each boiler 652 No. and Description of Safety Valves to
 two spring loaded Area of each valve 8'29" Pressure to which they are adjusted 185 Are they fitted with easing gear Yes
 nce between boilers or uptakes and bunkers or woodwork 18" Mean dia. of boilers Length Material of shell plates
 Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams
 Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
 of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell
 ensating ring plate No. and Description of Furnaces in each boiler Material Outside diameter
 ain part top Thickness of plate bottom Description of longitudinal joint No. of strengthening rings
 ssure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
 is to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules
 stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:
 Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays
 allest part Area supported by each stay Working pressure by rules Material of Front plates at bottom
 Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules
 tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays
 ss wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and
 girder at centre Length as per rule Distance apart Number and pitch of stays in each
 essure by rules Steam dome: description of joint to shell % of strength of joint
 Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
 Working pressure of shell by rules Crown plates Thickness How stayed
 EATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

W332-0114

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Lloyd's Register
Foundation

IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

✓

SPARE GEAR. State the articles supplied:— 1st each of top & bottom end, main bearing flange bolts & nuts, 1 set each of feed, bilge & air pump valves, assorted bar iron, bolts & nuts.

The foregoing is a correct description,

For COOPER & GREIG LIMITED

Shirley Cooper

Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1923 FEB. 9. 13. 26. MAR. 5. 13. 16. 20. 22. 26. 28. APR. 2. 12. 16. 19. 25. 30. MAY. 4. 8. 11. 14. 21. 25. 12. 15. 19. 21. 25. 26. 28. JULY 3. 10. 12. 14. 16. During erection on board vessel - - - 1923 AUG. 1. 3. 5. 15. 16. 21. 24. SEP. 3. 6. 13. 14. 15. Total No. of visits 48.

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 25-6-23 Slides 26-6-23 Covers 25-6-23 Pistons 25-6-23 Rods

Connecting rods 2-4-23 Crank shaft 25-5-23 Thrust shaft ✓ Tunnel shafts ✓ Screw shaft ✓ Propeller 181

Stern tube ✓ Steam pipes tested 16-2-23 Engine and boiler seatings 3-7-23 Engines holding down bolts 15-8-

Completion of pumping arrangements 15-8-23 Boilers fixed 3-8-23. Engines tried under steam 15-8-

Completion of fitting sea connections ✓ Stern tube ✓ Screw shaft and propeller ✓

Main boiler safety valves adjusted 6-9-23. Thickness of adjusting washers P. P.V. 3/8 S.V. 5/16 S. P.V. 3/16

Material of Crank shaft S Identification Mark on Do. 25-5-23 J.E. Material of Thrust shaft ✓ Identification Mark on Do.

Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts ✓ Identification Marks on Do.

Material of Steam Pipes Seamless copper Test pressure 360 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 No If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, &c. These engines have been built in

Special Survey and in accordance with the Rules; the materials and workmanship

are sound and good.

The engines & boilers have been fitted on board in an efficient manner

under working conditions and found satisfactory and are eligible

opinion to be classed with record of + L.M.C. 9-23.

new bronze propellers have now been fitted; for particulars of examination

Propellers, stern tube bushes, tunnel, screw & thrust shafts, sea-cocks & fastenings

please see attached report.

The amount of Entry Fee ... £ 4 : 0 : When applied for,

Special 3/5 L.M.C. ... £ 40 : 4 : 18/9/1923

Donkey Boiler Fee ... £ : : When received,

Travelling Expenses (if any) £ : : 30/10/23

Committee's Minute TUE OCT. 2 1923

Assigned