

REPORT OF SURVEY FOR REPAIRS, &c., OF ENGINES AND BOILERS

(Received at London Office 6 OCT 1943)

Date of writing Report **2.1. 43** 19 **43** When handed in at Local Office **2. 1. 43** Port of **BOMBAY.**

No. in Reg. Book **25962** Survey held at **BOMBAY.** Date. First Survey **6.11.42** Last Survey **31.12. 1942**
25973 on the Machinery of the ~~Wood, Iron or Steel~~ **S.S. HOPE STAR** (No. of Visits **6**)

Tonnage { Gross **5267** Vessel built at **Newcastle** By whom **Swan Hunter & Wigham Richardson** When **1936** Month **2**
Net **3192** Engines made at **Wallsend** By whom **Parsons Marine Steam Turbine Co. Ltd.** When **1936**
Nominal Horse Power **400** Boilers, when made (Main) **1936** Owners' Address **Port Newcastle.** Voyage
No. of Main Boilers **2** Owners **Wallsend Shipping Co. Ltd.,** Managers **Wallsend Shipping Co. Ltd.,** If Surveyed Afloat or in Dry Dock **Afloat**
No. of Donkey Boilers **1** Steam Pressure in Main Boilers **285 lbs** in Donkey Boilers **120 lbs.**

Last Report No. **42608** Port **N.Yk.**

Particulars of Examination and Repairs (if any) **Boiler Repairs.**

(Periodical Surveys, when held, must be reported in detail and scrutiny in the terms of the Rules. State clearly the cause of Repairs, if any, and, in detail, the nature and extent of Examinations and subsequent Repairs. Repairs on account of Damage (the cause of which must be stated) should be separated from Repairs due to other causes; and besides being detailed in the body of the report, should be briefly summarised at the end of the report. State also the dates and initials of any letters respecting this case.)

In damage cases where the Surveyor has not made a special damage report he is required to state whether he offered his services for this purpose, and why they were declined.

Was a damage report made by anyone else? If so, by whom?

Did the Surveyor personally go inside each Main Boiler separately and make a thorough examination at this time? **No.**

Did the Surveyor personally go inside each Donkey Boiler separately and make a thorough examination at this time? **No.**

And what parts of the Boilers could not be thus thoroughly examined?

Also what special means, in the absence of internal examination, were adopted by the Surveyor to assure himself of the thorough efficiency of those parts of each Boiler?

State latest date of internal examination of each boiler

CHARACTER. * for Special Survey Date of last Survey and of Periodical Surveys.	Years assigned expired.	Machinery and Boiler Surveys (including date of N.B., if any).
+ 100 AI - 5.42 with freeboard	1.43	+ L.M.C. 8.41 TS CL 7.41
S.S.NWC.No.1-1.41		
<i>Large buttons not fitted</i>		

Did the Surveyor examine the Safety Valves of the Main Boiler? To what pressure were they afterwards adjusted under steam? **Std. Blr. 285 lbs.Sq.inch**

Did the Surveyor examine the Safety Valves of Donkey Boiler? To what pressure were they afterwards adjusted under steam?

Did the Surveyor examine all the manholes, doors and their fastenings of the Main Boilers? and of the Donkey Boilers?

Did the Surveyor examine the drain plugs of the Main Boilers? and of the Donkey Boilers?

Did the Surveyor examine all the mountings of the Main Boilers? and of the Donkey Boilers?

Has the screw shaft now been drawn and examined? Is it fitted with continuous liner? Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated?

Has shaft now been changed? If so, state reasons. Has it a continuous liner? Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated?

State date of examination of Screw Shaft. State the distance between lignum vitae or bearing metal of stern bush and top of after bearing of screw shaft. Is electric light and/or power fitted

Engine parts, when referred to by numbers, should be counted from forward.

If so, did the Surveyor examine the generators, motors, switchgear, cables and fuses?

Has the insulation resistance of the generators, circuits and apparatus been tested and found to be not less than 100,000 ohms?

If the Survey is not complete, state what arrangements have been made for its completion and what remains to be done
NOW DONE:- Examined the combustion chambers of both main boilers on account of leakage from smoke tubes and recommended superheater elements (coil in back ends with tubes passing through smoke tube to header at front) to be removed for access. This was done and the boiler tubes made tight and found satisfactory under full water test and under full head of steam. All the superheater coil nuts were damaged during removal and new nuts were fitted. To do this it was necessary to cut the short straight ends of each coil and fit new ends welded on. Several defective ends of elements passing through smoke tubes were also renewed in this manner and all superheat tubes were tested to 850 lbs.Sq.inch water pressure. The safety valves were opened out and examined by the ship's staff. The safety valves of the starboard boiler were adjusted under steam and the safety valves of the port boiler remain to be adjusted. It was stated that this would be done at the first opportunity.

General Observations, Opinion, and Recommendation:-

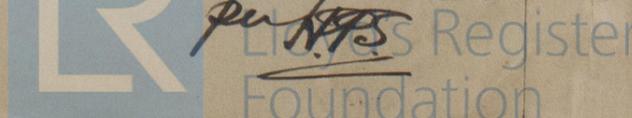
(State clearly what alteration, if any, is suggested to be made in the existing classification of the vessel's machinery in the Register Book, consequent upon this survey, and also any alteration required to be made in the records of the vessel's machinery, boilers, working pressures, &c.; thus, for example, B.S. 9,11, B.M.S. 9,11, L.M.C. 9,11, or L.M.C. 140 lb., F.D., &c.)

The machinery of this vessel is eligible, in my opinion, to remain as classed without fresh record subject to the port boiler safety valves being adjusted under steam at the first opportunity.

Survey Fee (per Section 29) **Rs.240/-** Fees applied for **2. 1. 19 43**
Special Damage or Repair Fee (if any) **£**
Travelling expenses (if chargeable) **Rs. 30/-** Received by me, **19**

John Ruddle
Engineer Surveyor to Lloyd's Register of Shipping.

Com. see's Minute **TUES, 26 OCT 1943**
Assignee **See Nwc. 101582**



Has a Survey also been held on Ship? If so, is the Report sent now, or when will it be sent?

10m. 40. - Transfer Ink. (The Surveyors are requested to write on or below the space for Committee's Minute.)

Insert Character of Ship and Machinery precisely as in the Register Book

Is a Certificate required? If so, to be sent to