

(Received at London Office

11.9 MAY 1948

28039 on the Machinery of the Wood, Iron or Steel S.S. "LANGTON GRANGE"

Gross	1043	Vessel built at	U.S.A. Maryland	By whom	Langdon	When	1942
Net	4909	Engines made at	U.S.A. Maryland	By whom	D. Brown	When	1942

), of Main Boilers 2SB/1auxSB Owners Houlave Line Ltd Owners' Address

in Main Boilers 220 lb. If Surveyed Afloat or in Dry Dock Both. Given No 2 Dry Dock Particulars of Classification which must be inserted

ist Report No. _____ Port _____
Docking, I.S. & LMC, Conversion to Civil
 ✕ for Special Survey.
 Date of last Survey and of
 Periodical Surveys. _____
 Years _____
 now _____
 explore _____
 Machinery and Boat
 Surveys
 (Including date of N.B., if any)

nd, 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

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

he Surveyor personally go inside each Main Boiler separately and make a thorough examination at this time. *He*

latest date of internal examination of each boiler *Port 15/4/48 Centre 15/4/48 High board 15/4/48*

the Surveyor examine the Safety Valves of the Donkey Boilers? *Yes* To what pressure were they afterwards adjusted under steam? *220 lbs*

he Surveyor examine the drain plugs of the Main Boilers? *yes* , and of the Donkey Boilers?

the surveyor examine all the mountings of the main Boilers? *yes* and of the Donkey Boilers?

the screw shaft now been drawn and examined? *Yes* Has it a centenary? *Yes* Is it the same as the one in the other Boilers? *Yes*

State date of examination of Green Sheet: 3-17-18

the insulation resistance of the generators, circuits and apparatus been tested and found to be not less than 100,000 ohms? (112)

W DONE

examined & found or placed in satisfactory condition

stud at this time Details of propeller. R.I.M. MB & B Co BR PATS LLOYDS PITCH 12-20/15-24

F.H.D. SCIMITAR 454225 9-1-40 12 in 18.25 ft.

main engine H.P. M.P. & L.P. cylinders, pistons valves & valve casing crankshaft throughout thrust

• auxiliary condensers • evaporator. The fan engine • the three steam generator engines in their entirety

General Observations, Opinion, and Recommendation: The machinery of this vessel so far as now seen is in safe &

to be made in the records of the vessel's machinery, boilers, working pressures, &c.; thus, for example, BS 9,11, & MS 9,11 & LMC 9,11 or & LMC 149 lb., FD, &c.)

Operating conditions shall be indicated with the following figures: 18 and 21.

Stk. 7, 100. + 1 unit for Oil Stk 7, 100 P.R. worth 100 f. 12 locks pulled for Supermarket.

Net Fee (per Section 29) \$32.00 Fees applied for ()

4. Damage or Repair Fee (if any) £ 3 : 0 : 0
 (per Section 29.) Elect. Survey 8 0 0
 Received by me. J. Blaylock, J. Wilson, J. Barker.

Committee's Minute GLASGOW, 18 MAY 1948

Fitted for air fuel 4.48 I.P. above 1500 ft

24,428
 CERTIFICATE WRITTEN.

S S "LANGTON GRANGE"

MS.

general service pump & pumping arrangements.

REPAIRS:-

new lockwood & barlisle piston rings & piston valve rings fitted to HP piston & valve
 new United States metallic packing fitted to HP piston rod. H.P. MP & LP valve spindles
 machined & new United States metallic packing fitted. At burners initiative a new LP piston
 rod was fitted at this time. new bronze rams now fitted to main engine driven bilge &
 sanitary pumps. & new head valves fitted to air pump.

Main circulating pump:- Impeller shaft renewed & new lockwood & barlisle piston rings fitted

Ballast pump:- Slide valves & valve chest machined, bucket rods machined & new neck bushes
 fitted & glands rebushed, new bucket rings fitted, new suction & delivery valves fitted

Feed pumps:- new lockwood & barlisle piston rings & bucket rings fitted

Auxiliary circulating pump:- Piston & bucket rods machined, new neck bushes fitted &
 glands rebushed, new lockwood & barlisle piston rings & new bucket rings fitted

General service pump:- Piston & bucket rings renewed.

Lockwood & barlisle piston rings were also fitted at this time to the fan engine &
 the three steam generator engines.

STEERING GEAR:-

The steering gear steam engine examined in its entirety & found in good condition

WINDLASS:-

The windlass examined in its entirety & found in good condition

B.S.

The port, centre & starboard boilers examined internally & externally with mountings
 fastenings & safety valves & found or placed in good condition

The safety valves of all boilers were adjusted under steam

REPAIRS:-

Port Boiler:- Scum & blow down valves, seats & valve lids machined

Centre Boiler:- Auxiliary stop valve seat renewed

CONVERSION FROM COAL TO OIL FUEL BURNING.

A Wallsend Slipway Engineering Co. Ltd. Duplex pumping & heating unit
 No O.B. 9145 & a Weirs Oil Fuel transfer pump No 211012 now installed in the stokehold. All furnace
 fronts renewed, no funnel damper fitted. No 3A double bottom tank fitted for carrying oil fuel,
 coal bunker forward of stokehold subdivided & converted into port & starboard deep tanks

Solid drawn steel oil fuel heating coils fitted to all tanks & hydraulically
 tested in place to 440 lb/p. all heating coil drains return to an observation tank. The feed pumps
 & fresh water tanks are isolated from fuel, bilge & ballast connections. No wood bearers or lead pipes
 fitted. Oil gutterways fitted in way of oil tanks & provision for drainage arranged.

Oil fuel discharge pipes & fittings hydraulically tested to 400 lb/p. suction & filling lines tested to
 100 lb/p. Steam fire extinguishing pipes fitted under boiler. Foam fire extinguishing apparatus fitted
 to convenient positions in stokehold & engine room. All fittings & pipes were installed & tested in
 accordance with approved plans & to the Society's Rules & Requirements. Approved plans herewith
 attached. Heating coil returns, steam smothering, unit controls & quick shut off valves tried &
 found satisfactory. A Victor oily water separator manufactured by Ferguson & Simpson No 415
 was installed in the port tween deck.

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SS "LANGTON GRANGE"

CONVERSION TO SUPERHEATED STEAM.

The Superheat Co Ltd, Manchester, superheaters have now been installed in all the boilers of this vessel & new steam pipes fitted in accordance with the approved plans & the Society's Rules & Requirements.

Approved plans herewith attached.

On completion of repairs & conversion all machinery & boilers were tried under working conditions & found satisfactory.

H.B.

ELECTRICAL EQUIPMENT:-

A Special Survey of the electrical equipment carried out. The following repairs were effected:- Generators, motors, Main Switchboard, and control gear overhauled; all cables renewed; section and fuse boxes overhauled or renewed as found necessary.

On completion of repairs, all circuits examined, I.R. tests taken, generators and circuit-breakers tested under full working load and installation seen under full working conditions. All found satisfactory.

S.H.

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