

Report of Survey for Repairs, &c., of Engines and Boilers.

(Received at London Office)

14 DEC 1949

Writing Report 19 When handed in at Local Office DEC 12 1949 19 Port of Sunderland.

Survey held at Cunderland Date, First Survey 19th August 49 Last Survey 22nd November 49
(No. of Visits 14)
on the Machinery of the Wood, Iron or Steel S/S "Winston Churchill"

Gross 7318 Vessel built at W. Hartlepool By whom W. Gray & Co Ltd Year. Month. 1945-7
Net 5115 Engines made at W. Hartlepool By whom W. Gray & Co Ltd When 1945-7
510 Boilers, when made (Main). 1945-7 (Donkey) — When 1945-7
over 3.58 Owners Dejean Shipping Co. Ltd Owners' Address —
(SUPT.) Managers Sq. Sibiricos, Ltd. (if not already recorded in Appendix to Register Book.)
Key Boilers — Port London. Voyage —
Boilers 220 If Surveyed Afloat or in Dry Dock Both - So Dock + Particulars of Classification (which must be inserted
Boilers — (State name of Dock.) T.W. Greenwell's drydock precisely as in Register Book & Supplements).

Report No. — Port —
Particulars of Examination and Repairs (if any) DKG. LMC + Low 100 * 100 AI. Machinery and Boiler Surveys (including date of N.B. if any) * LMC
with fresh board. 7-45
5-48. T.S. (CL) 5-48

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

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

3. Has a special damage report made by anyone else? If so, by whom? —

4. Has the Surveyor personally go inside each Main Boiler separately and make a thorough examination at this time? yes

5. Has the Surveyor personally go inside each Donkey Boiler separately and make a thorough examination at this time? —

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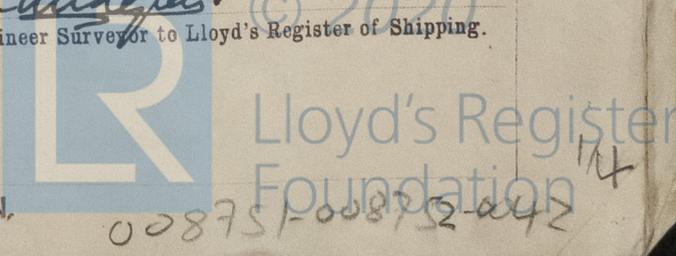
done:- Docking: Vessel placed in dry dock, propeller + outside fastenings + all sea connections (opened out) examined & found or placed in good order. Docking Repairs (W&T), a number of sea valve lids machined & valves generally overhauled. Alteration the ballast & main discharge valves removed from former position on side tank & fitted directly to ship side as per plan approved 29/9/49. (Continued on Sheet II.)

General Observations, Opinion, and Recommendation:— The machinery of this vessel 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. 120 lb., F.D., &c.)
now been is in good condition & eligible in my opinion to remain classed with fresh record of * LMC 11-49, ~~SS 11-49~~, fitted to burn oil fuel (FP above 150°F).

(per Section 29) LMC £ 32 : 0 : 0 Fees applied for
OF COM. 25 : 0 : 0 DEC 12 1949
Age or Repair Fee (if any) £ 5 : 0 : 0 Received by me,
per Section 29.) SS Dec 1949 £ 10 : 0 : 0 19
expenses (if chargeable) £ : : : 19

Surveyor's Minute WED 28 DEC 1949
+ LMC 11,49
fitted for oil fuel etc.

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



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

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

S/S "Winston Churchill".LMC. Boilers,

Now done: Three main boilers opened out, cleaned, examined internally & externally complete with all mountings, manhole openings, doors & fastenings, superheaters & connections, & found or placed in a safe working condition, & all safety valves adjusted to the working pressure stated above.

BS repairs - (W&T).

In the port boiler 48 plain tubes renewed.

In the Centre boiler 87 plain & 1 stay tube renewed.

In the Starboard boiler 71 plain tubes renewed.

Seams & rivets in each boiler caulked as necessary.

All superheater cleaned out, all elements removed tested, and renewed where found defective. All drains overhauled. Superheaters tested in position to 440 lbs.

All boiler mountings completely overhauled, parts renewed as necessary & refitted.

Machinery: - Now done :- Cylinders, pistons, slide valves crank-shaft & bearings, thrust block & shaft, intermediate shafting & bearings, air pump, bilge pumps, independent circulating pump & engine, 2 Weir's feed pumps, G Service pump, ballast pump, pumping arrangements, 2 dynamo engines, fan engine, windlass & steering engine opened out, examined & found or placed in good order.

Machinery repairs (W&T). Main engine piston valve rings all adjusted, all oilways in bearings re-cut, holding down bolts in main bedplate & thrust block hardened up and a number renewed, bilge pump rams skimmed up & new neck & gland bushes fitted, Weir feed pump steam & water rings renewed, circulating pump overhauled, ballast pump water end liners, buckets, rods & rings renewed, condensers tested, No 1 dynamo engine:- cylinder bored, rings renewed, new piston valve fitted, rods skimmed & new neck & gland bushes fitted, No 2 dynamo engine:- ridges removed from cylinder, rings renewed, rods skimmed & new neck & gland bushes fitted, fan engine:- rods skimmed & new neck & gland bushes fitted, steering engine & windlass:- all parts overhauled & refitted.

Conversion to oil fuel:- The three main boilers fitted to burn oil fuel (FP above 150°F), oil fuel unit with heater & pump in duplicate; lighting up set; transfer pump, settling tanks, suction & filling lines & high pressure lines to boilers fitted up in accordance with plan approved 31-10-47. Control of suction & filling valves, steam & oil connections fitted in accordance

S/S "Winston Churchill."

with Section 20 of Rules, and tested.

Heating coils fitted in settling tanks & tested.

Steam fire extinguishing under boilers & units fitted & tested. In addition 1-30 gall, 1-10 gall and 6-2 gallon portable fire extinguishers were fitted.

Additions. An additional feed water heater was installed at this time. All pipes (steam & feed) tested to Rule requirements & the system subsequently tested.

On completion of the above mentioned work the main & auxiliary machinery was tested under working conditions & found to be satisfactory.

J. H.



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s.s. "WINSTON CHURCHILL" Electrical Installation

The electrical equipment was examined throughout and in addition to the undermentioned items, minor progressive repairs to the sub-circuit wiring were effected in the machinery spaces and accommodation.

Now done :

At Owners request, the main switchboard was removed and reinstated in a new position at the after engine room bulkhead, and all main feeder cables thereto were cropped back into a suitable junction box at the old position from which new cables V.I.R. in conduit, were led to the new switchboard position. New main cables were run to the generators from this board.

A new 4 H.P. Engine Room Vent Fan motor was wired and fitted, controlled from a new D.P. switch and fuse way on the main board. New wiring in conduit was run between this way, starter and motor.

Upon completion of the above, the insulation resistance of all circuits was measured and found good, the Generators were satisfactorily operated on load. This equipment as now seen is in my opinion in good order and safe working condition and eligible to remain as classed.

Fee:- Special Survey (30KW) £5-0-0.
Alterations 10-0-0.
£15-0-0;

B. F. [Signature] 24th Nov. 1949.



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