

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 Weirs' 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

(Continued)

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.



© 2020

Lloyd's Register
Foundation

on the

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. & m.~~ 24th Nov. 1949.