

4A 99305

BOILERS, &c.—(Letter for record *S*) Total Heating Surface of Boilers *17,895 sq. ft.*
Is Forced Draft fitted *Yes, also Induced Draft* No. and Description of Boilers *THREE Babcock & Wilcox Water Tube Boilers* Working Pressure *450*
Is a Report on Main Boilers now forwarded? *Yes*

Is *a Donkey* Boiler fitted? *no.* If so, is a report now forwarded? *✓*
an Auxiliary

Is the donkey boiler intended to be used for domestic purposes only? *✓*
Plans. Are approved plans forwarded herewith for Shafting *No. 22/5/38 for AMRA. See Rpt on Bln. Auxiliary Boilers* Donkey Boilers *✓*
(If not state date of approval) *TS(04) 19/10/39. STERN TUBE LUBRICATION ARR. 12/12/40.*

Superheaters *See Rpt on Bln* General Pumping Arrangements *For AMRA. Yard No 1570* Oil Fuel Burning Arrangements *✓ Coal burning*
27/7/37. 2 EFB Run 29/11/37. (Mechanical Stok)
SPARE GEAR.

Has the spare gear required by the Rules been supplied? *Yes*
State the principal additional spare gear supplied. *See also Separate Report for Steam Turbines*

25-4" dia Inclined Tubes; 25-1 1/2" Inclined Tubes; 24-1 1/2" dia Superheater Tubes; 10-2 3/4" Air heater
25-4" " Return " ; 12 Gauge Glasses; 4 safety valve springs; - all for the Water tube Boil
For Turbo-Generators; 1 set turbine bearings; 1 armature of each size for Main Circulating water,
forced draft fans, induced draft fans, main & auxy water extraction pumps, ballast, bilge, ash,
& F.W. pumps, lub oil pumps, & ash hoist; 1 set pump impellers & 1 set bearings for each
Main & auxy Turbo-feed Pumps; 10% feed heater tubes; 50 tubes with ferrules & 100 packings for
main Condenser; 1 propeller shaft & nut, etc, etc
SWAN, HUNTER, & WIGHAM RICHARDSON, LTD.
G. J. Sweeney
DIRECTOR, Manufact

The foregoing is a correct description,

Dates of Survey while building *1939*
During progress of work in shops -- *Aug. 18. Sep. 4. 11. 15. 20. 22. 29. Oct. 17. 27. 30. Nov. 2. 6. 10. 13. 30. Dec. 4. 11. 22. 27. Jan. 5. 11. 15.*
During erection on board vessel --- *23. 24. 25. 31. Feb. 2. 5. 6. 8. 9. 14. 16. 20. 21. 22. 28. Mar. 1. 4. 7. 8. 12. 14. 15. 18. 19. 20. 21. 27. Apr. 1. 4.*
Total No. of visits *1941 Jan. 3. 10. 15. 23. 24. 27. 29. Feb. 5. 7. 12. 19. 24. 27. 28. Mar. 1. 3. 6. 7. 8. 10. 12. 17.*

Dates of Examination of principal parts—Casings *See Separate Report for Steam Turbines.*
Wheel shafts. Thrust shafts *27/3/40* Intermediate shafts *10/6/40* Tube shaft *✓* Screw shafts *12/4/40*

Propellers *12/4/40* Stern tubes *25. 1/7/40* Engine and boiler seatings *17/5/40* Engine holding down bolts *23/1/41*

Completion of fitting sea connections *17/5/40* Completion of pumping arrangements *24/2/41* Boilers fired *25/9/40* Engines tried under steam *27/4/41*
Main boiler safety valves adjusted *27/2/41* Thickness of adjusting washers *See Rpt* Identification Mark *✓*

Rotor shaft, Material and tensile strength *See Separate Report for Steam Turbines.* Identification Mark *✓*

Flexible Pinion Shaft, Material and tensile strength *See Separate Report for Steam Turbines.* Identification Mark *✓*

Pinion shaft, Material and tensile strength *See Separate Report for Steam Turbines.* Identification Mark *✓*

1st Reduction Wheel Shaft, Material and tensile strength *See Separate Report for Steam Turbines.* Identification Mark *✓*

Wheel shaft, Material *Identification Mark* Thrust shafts, Material *O.H. Forged Steel* Identification Mark *8786 HAI.*

Intermediate shafts, Material *O.H. F. Steel* Identification Marks *400, 401, 402, 403, 404, 405, 406, 407/2.*

Screw shafts, Material *O.H. F. Steel* Identification Marks *8786 HAI.* Steam Pipes, Material *S.D. Steel* Test pressure *1350 lb*

Date of test *4/4/40 to 12/2/41.* Is an installation fitted for burning oil fuel *No.*

Is the flash point of the oil to be used over 150°F. *No* Have the requirements of the Rules for the use of oil as fuel been complied with *✓*

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo *No* If so, have the requirements of the Rules been complied with *✓*

If the notation for ice strengthening is desired, state whether the requirements in this respect have been complied with *✓*

Is this machinery a duplicate of a previous case *Yes* If so, state name of vessel *AMRA, Yard No 1570. Newcastle*

General Remarks (State quality of workmanship, opinions as to class, &c.) *ASKA " 1596. 96890*

The Machinery of this Vessel has been constructed and installed in accordance with the Society's Rules and approved plans, and the materials and workmanship are good. The Main Condensers, which are hung below the P & S. L.P. Turbines are supported on Springs (4 under each condenser).

The Machinery has been satisfactorily tested under working conditions—moving at Wharf, and when moving from Wharf at Neptune Yard into S.H.W.R. Dry Docks, and is, in my opinion, to be classed with this Society, and to have record *3 LMC 3.41; a*

the notations *3 WT Blns, Spt. FD. 450 lbs WP.; TS. 0.6*

The amount of Entry Fee *£ 6 : 0* When applied for, *27 MAR 1941*
Special *46 9/16 48-2 153 : 18.*
Donkey Boiler Fee *£ — : —* When received, *19*
Travelling Expenses (if any) *£ — : —*

Committee's Minute
Assigned *1 LMC 3.41*
3 WT Bln. 450 lbs (Spt. 440 lbs)
22. 0.6