

NEWCASTLE-ON-TYNE

1930

Gross 4868

When built 1924

When made 1984

When made 1930

Port belonging to Canada

Is Electric Light fitted yes

ment Trade.

Wm. F. P. Baker. Wash. D. C.

direct coupled to { Alternating Current Generator phase periods per second } rated Kilowatts Volts at revolutions per minute;
for supplying power for driving Propelling Motors, Type

rated _____ Kilowatts _____ Volts at _____ revolutions per minute. Direct coupled, single or double reduction geared to _____ propelling shafts.

[illegible]

Shaft Horse Power at each turbine	{	H.P.	Revolutions per minute, at full power, of each Turbine Shaft	{	H.P.	1st reduction wheel	558
		I.P.			I.P.		
		L.P. 1182			L.P. 3546	main shaft	91.5

Rotor Shaft diameter at journals	H.P. :	Pitch Circle Diameter	1st pinion	230.9 1/2	1st reduction wheel	1489.4 1/2	Width of Face	1st reduction wheel	280 1/2
	I.P.		2nd pinion	348.4 1/2	main wheel	2168.4 1/2		main wheel	530 1/2
	L.P. 140 1/2		(1st pinion)	335.3 1/2	1st reduction wheel	260.1490 1/2			

Distance between centres of pinion and wheel faces and the centre of the adjacent bearings

Flexible Pinion Shafts, diameter	1st	9 3/4 in.	Pinion Shafts, diameter at bearings	External	1st	14 1/2 in.	2nd	35 1/2 in.	diameter at bottom of pinion teeth	1st	18 1/2 in.
	2nd	-		Internal	1st	-		2nd		29 1/2 in.	2nd

Wheel Shafts, diameter at bearings	1st 1904 1/2 in. diameter at wheel shroud, main 800 3/4 in.	1st 1421 in. Generator Shaft, diameter at bearings main 2049 1/2 in. Propelling Motor Shaft, diameter at bearings
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Intermediate Shafts, diameter as per rule 12.46 as fitted 12.845 Thrust Shaft, diameter at collars as per rule 13.5 as fitted 3.80 Tube Shaft, diameter as per rule 13.5 as fitted 3.80

Crew Shaft, diameter *as per rule* Is the { tube } shaft fitted with a continuous liner } **Bronze Liners, thickness in way of bushes** *as per rule*
 as fitted { screw } } *as fitted*

thickness between bushes as per rule..... Is the after end of the liner made watertight in the propeller boss..... If the liner is in more than one length are the junctions as fitted..... If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with

plastic material insoluble in water and non-corrosive..... If two liners are fitted, is the shaft lapped or protected between the liners..... Is an approved Oil Glass used to observe oil level in the stern bush..... Length of Bearing in **Stern Bush** next to and supporting propeller.....

or other appliance fitted at the after end of the tube shaft.....
 Propeller, diameter..... Pitch..... No. of Blades..... State whether Moveable..... Total Developed Surface..... square feet.....
 Can the H.P. or I.P. Turbine exhaust direct to the L.P. Turbine.....

If Single Screw, are arrangements made for steam to be used in Condenser		No. of Turbines fitted with astern wheels	Feed Pumps	No. and size	How driven
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No.	Size	How driven
Pumps connected to the Main Bilge Line		

Ballast Pumps, No. and size..... **Lubricating Oil Pumps, including Spare Pump, No. and size**.....
 **Suctions, connected to both Main Bilge Pumps and Auxiliary B**.....

Pumps, No. and size:—In Engine and Boiler Room.....

In Holds, &c...... **Independent Power Pump Direct Suctions to the Engine Room**
Main Water Circulating Pump Direct Bilge Suctions, No. and size.....
Are all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes.....

Are the Bilge Suctions in the Machinery Space led from easily accessible mud-bores, placed above the level of the working floor, with straight tail pipes to the bilges

Are they fitted with Valves or Cocks

Are all **Sea Connections** fitted direct on the skin of the ship..... Are the **Overboard Discharges** above or below the deep water line.....
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates.....
Are the **Blow Off Cocks** fitted with a spigot and brass covering plate.....
Are the **Blow Off Valves** always accessible on the plating of the vessel.....

Are they each fitted with a Discharge Valve and a Valve?

How are they protected

What pipes pass through the bunkers

Have they been tested as per rule

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times.

Is the arrangement of valves and their connections such that the water in the
compartment to another Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from

WILEY
Foundation



BOILERS, &c.—(Letter for record) Total Heating Surface of Boilers
 Is Forced Draft fitted No. and Description of Boilers Working Pressure
 Is a Report on Main Boilers now forwarded?
 Is a Donkey Boiler fitted? If so, is a report now forwarded?
 Plans Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers
 (If not state date of approval)
 Superheaters General Pumping Arrangements Oil Fuel Burning Arrangements
 Spare Gear. State the articles supplied:— *As per attached list, the Rules of the Society.*

FOR
 DWAN, HUNTER & WIGHAM, RICHARDSON, LTD.

The foregoing is a correct description,

G. J. Murray

Manufacturer

Dates of Survey while building
 During progress of work in shops -- 1928 Oct. 23, Nov. 22, Jan. 22, Feb. 26, Apr. 10, May 1, June 3, July 23, 31, Aug. 19, 27, Sept. 10, 20, Oct. 9.
 During erection on board vessel --- 1930 21, 23, 25, 28, 30, July 15, 16, 17, 24, 28, 30, Aug. 6, 11, 13, 29, Sep. 2, 5, 8, 9, 16, 23, 24, 25, 29, Oct. 13.
 Total No. of visits 40
 Dates of Examination of principal parts—Casings 24.8.29, Rotors 21.10.29, Blading 21.10.29, Gearing 21.10.29
 Wheel shaft 9.10.29, Thrust shaft 9.10.29, Intermediate shafts, Turbine, Tube shaft, Screw shaft
 Propeller, Stern tube, Engine and boiler seatings 18.8.30, Engine holding down bolts 9.9.30.
 Completion of pumping arrangements, Boilers fixed, Engines tried under steam 3.10.30.
 Main boiler safety valves adjusted, Thickness of adjusting washers, 15.9.14.D.
 Rotor shaft, Material and tensile strength, Steel, See attached Rpt, Identification Mark 8.2.8.9.10.29.
 Pinion shaft, Material and tensile strength, Steel, - do -, Identification Mark - do -.
 Intermediate shaft, Material and tensile strength, Steel, - do -, Identification Mark - do -.
 Turbine shaft, Material and tensile strength, Steel, 5.9.14.D, Identification Mark - do -.
 Wheel shaft, Material, Steel, Identification Mark 8.2.8.9.10.29, Thrust shaft, Material, Steel, Identification Mark - do -.
 Intermediate shafts, Material, Steel, Identification Marks - do -, Tube shaft, Material, - , Identification Marks - .
 Propeller, Material, Steel, Identification Marks - do -, Steam Pipes, Material, - , Test pressure - .

Date of test -- Is an installation fitted for burning oil fuel --
 Is the flash point of the oil to be used over 150°F. 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. If so, have the requirements of the Rules been complied with --
 Is this machinery a duplicate of a previous case Yes If so, state name of vessel *Pat Brisbane*

General Remarks (State quality of workmanship, opinions as to class, &c. *The turbines have been built under special survey in accordance with the approved plans, the Rules of the Society, have been securely fitted on board the vessel, tried under full working conditions, found satisfactory the workmanship, materials are of good quality throughout. These turbines have been built to work in conjunction with the existing reciprocating machinery.*

The amount of Entry Fee ... £ : : When applied for, 10 OCT 1930
 Special ... £ 34 : 6 :
 Donkey Boiler Fee ... £ : : When received, 14.10.30
 Travelling Expenses (if any) £ : :

Thos. A. Ferguson
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 24 OCT 1930

FRI. 27 MAR 1931

FRI. 21 AUG 1931

Assigned

FRI. 24 OCT 1930



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