

Received at London Office 23 MAR 1931

Date of writing Report 19 When handed in at Local Office 21-3-1931 Port of Belfast

No. in Survey held at Belfast Date, First Survey Vials included in R. & W. report. 19

Ref. Book. Single on the TWIN Triple Screw vessel REINA DEL PACIFICO Tons Gross Net

Built at Belfast By whom built Harland & Wolff Ltd. Yard No. 852 When built 1931

Owners Pacific Steam Navigation Co. Ltd. Port belonging to Liverpool.

Oil Engines made at Belfast By whom made Harland & Wolff Ltd. Contract No. 852 When made 1931

Generators made at Belfast By whom made Harland & Wolff Ltd. Contract No. 852 When made 1931

No. of Sets Four Engine Brake Horse Power 1480 Nom. Horse Power as per Rule 537 Total Capacity of Generators 1400 Kilowatts.

OIL ENGINES, &c.—Type of Engines Harland & Wolff B.M. airless injection diesel 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 500 lbs. Diameter of cylinders 330 mm. Length of stroke 680 mm. No. of cylinders six No. of cranks six

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 412 mm. Is there a bearing between each crank Yes

Revolutions per minute 245 Flywheel dia. 1900 mm. Weight 4730 kils. Means of ignition Compression Kind of fuel used diesel oil

Crank Shaft, dia. of journals as per Rule 208 mm. Crank pin dia. 220 mm. Crank Webs Mid. length breadth — Thickness parallel to axis 125 mm. as fitted 220 mm. bored 62 mm. bored 107 mm. Mid. length thickness 125 mm. shrunk Thickness around eye hole 100 mm.

Flywheel Shaft, diameter as per Rule 208 mm. Intermediate Shafts, diameter as per Rule — Thickness of cylinder liners 74 mm. as fitted 220 mm.

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication forced

Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Yes

Cooling Water Pumps, No. 1500 Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size One for each engine 6 2 1/2 m.p.h. each.

Air Compressors, No. None No. of stages Diameters Stroke Driven by

Scavenging Air Pumps, No. None Diameter Stroke Driven by

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes

Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces open ends

Is there a drain arrangement fitted at the lowest part of each receiver Yes

High Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

Seamless lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

Starting Air Receivers, No. Two Total cubic capacity 400 litres Internal diameter 342 mm. thickness 16 mm.

Seamless lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 28-37 Working pressure by Rules 129 lbs.

ELECTRIC GENERATORS:—Type Compound wound

Pressure of supply 220 volts. Load 1580 Amperes. Direct or Alternating Current Direct

If alternating current system, state frequency of periods per second

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes

Generators, do they comply with the requirements regarding rating Yes are they compound wound Yes

are they over compounded 5 per cent. Yes, if not compound wound state distance between each generator

is an adjustable regulating resistance fitted in series with each shunt field Yes Are all terminals accessible, clearly marked, and furnished with sockets Yes

are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Yes Are the lubricating arrangements of the generators as per Rule Yes

PLANS. Are approved plans forwarded herewith for Shafting 13. 9. 29. Receivers Separate Tanks

(If not, state date of approval)

SPARE GEAR See attached list

Dates of Survey while building
 During progress of work in shops - -
 During erection on board vessel - - -
 Total No. of visits

See report on main motor.

Dates of Examination of principal parts—Cylinders 26.3.30 to 20.8.30 Covers 26.3.30 to 19.30 Pistons 15.4.30 to 1.10.30 Piston rods ✓

Connecting rods 15.4.30 to 12.9.30 Crank and Flywheel shaft 24.4.30 to 24.7.30 Intermediate shaft ✓

Crank and Flywheel shafts, Material S. M. STEEL Identification Mark LLOYD'S Nos. 120-128-133-137 R.L.A.

Intermediate shafts, Material Identification Marks

Is this machinery duplicate of a previous case No. If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, &c.)

This machinery has been constructed under special Survey. The materials & workmanship are sound & good. It has been satisfactorily installed on the vessel and tried under full working conditions.

The amount of Fee ... £
 Travelling Expenses (if any) £
 When applied for, 19.
 When received, 19.

R. Lee Ansell.
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned
 TUE. 24 MAR 1931
 See F.E. Rpt.