

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 12128

APR 12 1938

Date of writing Report 19 When handed in at Local Office 8/4/19 Port of Belfast
 No. in Survey held at Belfast Date, First Survey Please see machinery report Last Survey 19
 Reg. Book. Number of Visits

12182 on the ^{Single} Twin Screw vessel **CAPETOWN CASTLE** Tons { Gross 26850 Net 16500
 Built at Belfast By whom built Harland & Wolff Ltd Yard No. 986 When built 1938
 Owners Union Castle Mail S.S.Co. Ltd Port belonging to London
 Oil Engines made at Belfast By whom made Harland & Wolff Ltd Contract No. 986 When made 1938
 Generators made at Belfast By whom made Harland & Wolff Ltd Contract No. 986 When made 1938
 No. of Sets 5 Engine Brake Horse Power Nom. Horse Power as per Rule 990 Total Capacity of Generators 3500 Kilowatts.

OIL ENGINES, &c.—Type of Engines Harland B.W. Air-injection 2 or 4 stroke cycle Two Single or double acting Single
 Maximum pressure in cylinders 700 lb Diameter of cylinders 350 mm Length of stroke 620 mm No. of cylinders 6 No. of cranks 6
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 462 mm Is there a bearing between each crank Yes
 Revolutions per minute 260 Flywheel dia. 1900 mm Weight 4900 kg Means of ignition Compression Kind of fuel used Diesel Oil
 Crank Shaft, dia. of journals as per Rule 270 mm Crank pin dia. 240 mm Crank Webs Mid. length breadth 320 mm Thickness parallel to axis
 as fitted Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 26 mm
 as fitted Thickness around eyehole
 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 Lagged
 Cooling Water Pumps, No. Two Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes
 Lubricating Oil Pumps, No. and size Two 100 tons/hr.
 Air Compressors, No. 13 lower No. of stages Diameters Stroke Driven by
 Scavenging Air Pumps, No. One each engine Capacity 111 m³/min at 1010 mm Stroke 1.2 kg/cm² gauge Driven by Engine

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule
 Can the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces
 Is there a drain arrangement fitted at the lowest part of each receiver
High Pressure Air Receivers, No. 2 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. 2 Total cubic capacity Internal diameter thickness
 Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS:—Type Compound wound, Multi-polar open type
 Pressure of supply 220 volts Load 3150 Amperes. Direct or Alternating Current DC
 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 30-10-36 Receivers Separate Tanks See main eng. rpt.
 (If not, state date of approval)

SPARE GEAR

See attached list

The foregoing is a correct description
 FOR HARLAND AND WOLFF, LIMITED.

A. J. Marshall
 Secretary.



© 2021
 Lloyd's Register
 Foundation

015348-015354-0048

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

Dates of Examination of principal parts—Cylinders 29/11/36 to 7/10/37 Covers 29/11/36 to 7/10/37 Pistons 12/3/37 to 5/10/37 Piston rods ✓

Connecting rods 22/2/37 to 29/9/37 Crank and Flywheel shafts 4/6/37 to 31/8/37 Intermediate shaft ✓

Crank and Flywheel shafts, Material Steel Identification Mark LLOYD'S N° 259

Intermediate shafts, Material ✓ Identification Marks " ✓

Is this machinery duplicate of a previous case Yes If so, state name of vessel STIRLING CASTLE

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

These engines have been constructed under special survey. The workmanship & materials are good. They have been efficiently installed on board the vessel & tried out under full working conditions with satisfactory results.

The main generators were constructed under special survey and the electrical installation tested & tried out with satisfactory results.

Rpt. 1

Date of

No. in

Reg. 1

22182

Built

Owner

Electr

Is the

System

Pressu

Direct

If alter

Has the

Genera

are they

Where

series w

approve

Have ce

Are all

short ci

Positi

in way

woodwo

are the

Earth

in mel

Ro

a fuse

Switch

injury

horizon

material

is it of

non-hyg

type

omnibu

"off" p

switch

L.P.

Swi

Are tur

fire-res

voltmet

Cart

do thes

1m. 28 — transfer. (The Surveyors are requested not to write on or below the space for Committee Minutes.)

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

Charles Hunter & *R. Lee Anneson*
 Surveyors to Lloyd's Register of Shipping.

FRI. 22 APR 1938

See Bel J.E. 12128

Committee's Minute
 Assigned

