

t. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 92946

8 AUG 1928

When handed in at Local office

8 AUG 1928 Port of

Received at London Office

8 AUG 1928

in Survey held at
y. Book.on the
Single
Twin
Triple
Quadruple
Nagasaki

Bedford

Date, First Survey

Received at London Office

8 AUG 1928

Received at London Office

8 AUG 1928

Last Survey

8 AUG 1928

Number of Visits

ASAMA - MARUBy whom built Mitsubishi Dockyard Yard No. When builtBuilt at Nagasaki By whom built Mitsubishi Dockyard Yard No. When builtOwners Pacific Liners Ltd Nippon Yusen Kaisha Port belonging toEngines made at Bedford By whom made Mess. W. H. Allen & Sons Ltd Contract No. 8601/9/06 When made 1928Generators made at Bedford By whom made Mess. W. H. Allen & Sons Ltd Contract No. 8606/9/34 When made 1928No. of Sets 4 Engine Brake Horse Power 2640 Nom. Horse Power as per Rule 754 Total Capacity of Generators 1800 Kilowatts.L ENGINES, &c. Type of Engines Diesel (Burma - Main) 2 or 4 stroke cycle 4 Single or double acting S.A.Maximum pressure in cylinders 575 lbs/in² Diameter of cylinders 410 1/2 Length of stroke 600 1/2 No. of cylinders 6 No. of cranks 6Bearing, adjacent to the Crank, measured from inner edge to outer edge 506 1/2 Is there a bearing between each crank YesRevolutions per minute 250 Flywheel dia. 2220 1/2 Weight 6.9 Tons Means of ignition Compression Kind of fuel used DieselCrank Shaft, dia. of journals as per Rule 227 1/2 Crank pin dia. 240 1/2 Mid. length breadth 360 1/2 This is parallel Yesas stated 240 1/2 Crank Web Mid. length thickness 127 1/2 Crank SOLID FORGEDFlywheel Shaft, dia. of journals as per Rule 227 1/2 Intermediate Shafts, diameter as per Rule stated Thickness of cylinder liners 29.5Is there a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Mechanical ForcedAre the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting materialCooling Water Pumps, No. One Is the sea suction provided with an efficient strainer which can be cleared within the vesselLubricating Oil Pumps, No. and size One per engine Driven by Crank or EngineAir Compressors, No. One to each engine Driven by Crank or EngineDraughting Air Pumps, No. One Diameter — Stroke — Driven by —R RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes Portable Ends.In the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfacesIs there a drain arrangement fitted at the lowest part of each receiver YesHigh Pressure Air Receivers, No. One per engine Cubic capacity of each 90 litres Internal diameter 9 3/4" thickness 3/8"unless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 29/33 tons Working pressure by Rules 1026 lbs/in²Starting Air Receivers, No. One per engine Total cubic capacity 290 litres Internal diameter 400 mm thickness 16 mmunless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 29/33 tons Working pressure by Rules 1403 lbs/in²LECTRIC GENERATORS:—Type Two bearing Trip Proof DirectPressure of supply 225 volts. Load 2000 Amperes. Direct or Alternating Current DirectAlternating 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 YesGenerators, do they comply with the requirements regarding rating Yes are they compound wound YesAre they ever compensated 5 per cent Level Compounding, if so compensated what 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 YesAre 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 —PLANS. Are approved plans forwarded herewith for Shafing Ab. 17th 1927 Receivers — Separate Tanks —

PARE GEAR

As per List attached.

The foregoing is a correct description.

H. ALLEN SONS & CO. LTD. BEDFORD.

Return.

Manufacturer.

© 2018

Lloyd's Register
Foundation

Dates of Survey while building
 During progress of work in shops Jan 24, 23, Feb 17, 25-27, March 5, 23, April 24-27, May 1, 12, 17, 22, 26, 29, 30, June 5, 8, 13, 15, 21, 22, 25, 29, July 7, 11, 12.
 During erection on board vessel 17, 18, 23. 1928.
 Total No. of visits 31 Partial = 12 full.

Dates of Examination of principal parts—Cylinder ~~Aug 28, Aug 1, 1928~~ Covers ~~Aug 22-25, Aug 29~~ Pistons ~~24-28, 18-22~~. Piston rods ✓
 Connecting rods ~~Aug 20, 23, 26, 28, 29, 30~~ Crank and Flywheel shaft ~~Aug 22-24, 22-26, 28, 7-7-28~~ Intermediate shaft ✓

Crank and Flywheel shaft, Material Steel

Identification Mark SEE BELOW

Identification Marks

Is this machinery duplicate of a previous case Yes

If so, state name of vessel

S.S. Duchess of Richmond

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

CRANK SHAFT IDENTIFICATION MARKS

ENG. A. LLOYDS 9004 27-12-27 F ENG. B. LLOYDS 9003 27-12-27 F ENG. C. LLOYDS 976 N° 434 RWF 25-5-28 B
 ENG. D. RWF LLOYDS 1298 395 19-6-28.

This Machinery has been constructed under Special Survey in accordance with approved plans and Rule Requirements. The Workmanship and Materials, so far as can be seen, are good and satisfactory bench trials have been carried out under survey.

The Four sets which are numbered 86601/A/B/C/D have been despatched to Nagasaki where they are to be installed on board and, in my opinion will be eligible for inclusion in the classification and record of I.M.C. of the vessel.



the under
Messrs, Hill

Oil Eng
to British
Government

Main

Service Dept

As am

When
the revolution
oscillated

The re
thrown on
which speed

(The Surveyors are requested not to write on or alter the space for Committee's Minute.)

100-730-Transfer.

Committee's Minute

FRI. 29 NOV 1929

Assigned

See Log Book No 1641

LQ-FAF-TB12-75

When applied for,
8 AUG 1928

When received,
16.8.1928 J.H.

Surveyor to Lloyd's Register of Shipping.

TUE. 24 MAR 1931

Arthur R. Palmer.

© 2018



Lloyd's Register
Foundation

Certificate is issued up
while the Committee use
understand that neither the
accuracy in any report or
of the Society, or fo
rity."