

RECEIVED

NEWCASTLE-ON-TYNE, No. 105986



Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 3189

Received at London Office

Date of writing Report 9.7. 1948. When handed in at Local Office 12/7 1948 Port of BARROW. 13 JUL 1948

NEWCASTLE-ON-TYNE 8-MAR 1949

No. in Survey held at BARROW Date, First Survey 5.3.47 Last Survey 24.6.1948

Reg. Book 95136 on the *S.S. SHILLONG* Screw vessel. Number of Visits 26. Tons Gross 8933.68 Net 4816.33

Built at NEWCASTLE By whom built VICKERS-ARMSTRONGS, LTD. Yard No. 104 When built 1948

Owners THE PENINSULAR & ORIENTAL STEAM NAVIGATION CO., LTD. Port belonging to LONDON

Oil Engines made at BARROW By whom made VICKERS-ARMSTRONGS, LTD. Contract No. 251802) When made 1948

Generators made at BEDFORD By whom made W.H. ALLEN & SONS, LTD. Contract No. 251803) 251804) When made 1948

No. of Sets 3 Engine Brake Horse Power 525 Nom. Horse Power as per Rule 393 Total Capacity of Generators 1050 Kilowatts.

OIL ENGINES, &c.—Type of Engines Compression Ignition H.O. 2 or 4 stroke cycle 4 Single or double acting S

Maximum pressure in cylinders 700 lb. Diameter of cylinders 12 1/2" Length of stroke 15" No. of cylinders 8 No. of cranks 8

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 13 13/16" Is there a bearing between each crank Yes

Revolutions per minute 350 Flywheel dia. 5'-2 1/2" Weight 60.55 cwt. Means of ignition Compression Kind of fuel used F.P. abgve 150

Crank Shaft, dia. of journals as per Rule Appd. 9" Crank pin dia. 7" Crank Webs Mid. length breadth 12" Thickness parallel to axis

Flywheel Shaft, diameter as per Rule Appd. 9" Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 1"

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

Cooling Water Pumps, No. 1 Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 1 geared 1 1/2" dia. delivery

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

Scavenging Air Pumps, No. None Diameter Stroke Driven by

AIR RECEIVERS:—Have they been made under Survey State No. of Report or Certificate

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. 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. 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 See London Report

Pressure of supply volts Full Load Current Amperes Direct or Alternating Current

If alternating current system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

on and off Yes Generators, are they compounded as per Rule is an adjustable regulating resistance fitted in series with each shunt field

Are all terminals accessible, clearly marked, and furnished with sockets Are they so spaced

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

If the generators are under 100 kw. full load rating, have the makers supplied certificates of test and do the results comply with the requirements

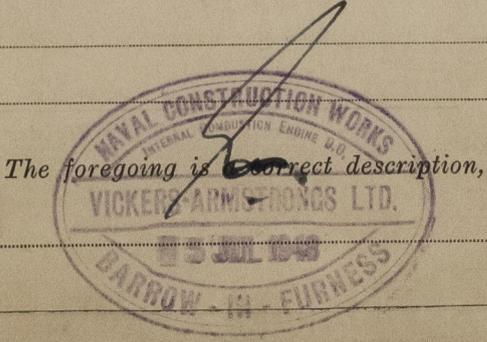
If the generators are 100 kw. or over have they been built and tested under survey

PLANS.—Are approved plans forwarded herewith for Shafting Receivers Separate Tanks

SPARE GEAR (If not, state date of approval)

Identification Marks:

Lloyd's No.	Engine No.	Generator No.	Crankshaft No.
75 16.6.48 AE	251802	E2/63844/1	59802
207 23.6.48 LR	251803	E2/63844/4	54223
76 24.6.48 AE	251804	E2/63844/5	61752



The foregoing is correct description,

Manufacturer.



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005453-005461-0031

Handwritten notes: 15, 18/19/48

Dates of Survey while building { During progress of work in shops - - 1947 Mar. 5. Dec. 18. 30. 1948 Jan. 25. Feb. 2. 12. 17. Mar. 9. 10. 11. 12. Apl. 1. 7. 23. 26. May 3. 4. 6. 21. June 2. 4. 15. 16. 18. 23. 24. During erection on board vessel - - - }
 Total No. of visits 26.

Dates of Examination of principal parts—Cylinders 18.6.48 to 23.4.48 Covers 18.6.48 to 23.4.48 Pistons 16.6.48 to 24.6.48 Piston rods 16.6.48 to 24.6.48
 Connecting rods 5.3.47 to 24.6.48 Crank and Flywheel shafts 16.6.48 to 24.6.48 Intermediate shafts -

Crank shaft { Material Tensile strength
 Elongation See attached Reports 7a. Identification Marks.....

Flywheel shaft, Material Identification Marks.....

Is this machinery duplicate of a previous case Yes Identification Marks.....

Identification marks on Air Receivers Supplied direct to Shipbuilders.

Is this machinery duplicate of a previous case Yes If so, state name of vessel Vickers-Armstrongs' No. 103.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

These engines have been constructed under special survey in accordance with the approved plans, Secretary's letters and the Requirements of the Rules.

Workmanship and materials are good.

The engines have been tested in the shops with satisfactory results and have been despatched to Newcastle for installation.

T.V.C. approved for P.P.M. 350 Sec's letter of 23/9/48.

SURVEY OF MACHINERY.

NEWCASTLE-ON-TYNE.

FIRST SURVEY

8/5/48

LAST SURVEY

4/3/49

NO. OF VISITS

48

The generator has been efficiently installed on board examined under full working conditions with satisfactory results

Jed A.E. Munro & Self J.A. O'Neil

SURVEYOR TO LLOYD'S REGISTER, NEWCASTLE-ON-TYNE.

Newcastle-on-Tyne.

3rd March 1949

L. R. Home

The amount of Fee ... £ 58. : 19. : - { When applied for 19
 (Per Nottingham Office)
 Travelling Expenses (if any) £ : : When received 19

Committee's Minute

FRID 29 APR 1949

Assigned

See F.E. Buckley, rph



Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation