

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 104009

Received at London Office

4 FEB 1937

Date of writing Report 29 Jan 1937 When handed in at Local Office Bedford. Port of London
 No. in Survey held at Bedford. Date, First Survey 20 November 1936 Last Survey 29 Jan 1937
 Reg. Book. "MOAMOA" Number of Visits 10
 on the Single Screw vessel Tons { Gross
 Triple Net
 Quadruple
 Built at Hongkong By whom built W. Hampson Dock. Yard No. 771 When built
 Owners Port belonging to
 Oil Engines made at Bedford By whom made W. H. Allen & Sons Ltd Contract No. K/63174 When made 1937
 Generators made at do By whom made do Contract No. When made 1937
 No. of Sets 2 Engine Brake Horse Power 61 Nom. Horse Power as per Rule 17.4 Total Capacity of Generators 80 Kilowatts.

OIL ENGINES, &c. Type of Engines Heavy oil airless injection 2 or 4 stroke cycle 4 Single or double acting single
 Maximum pressure in cylinders 650 Diameter of cylinders 230 1/2 Length of stroke 300 No. of cylinders 2 No. of cranks 2
 Span of bearings, adjnt to the Crank, measured from inner edge to inner edge 268 1/2 Is there a bearing between each crank yes
 Revolutions per min 435 Flywheel dia. 1340 Weight 4000 lb Means of ignition Compression Kind of fuel used Diesel oil
 Crank Shaft, dia. journals as per Rule 128 1/2 as fitted 130 1/2 Crank pin dia. 130 1/2 Crank Webs Mid. length breadth 200 1/2 Mid. length thickness 60 1/2 Thickness parallel to axis - Thickness around eyehole -
 Flywheel Shaft, dia. as per Rule as fitted Crank shaft Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 17 1/2
 Is a governor or other arrangement fitted to prevent racing of the engine when de-clutched yes Means of lubrication forced
 Are the cylinders fitted with safety valves no Are the exhaust pipes and silencers water cooled or lagged with non-conducting material no
 Cooling Water Pps, No. one on engine Is the sea suction provided with an efficient strainer which can be cleared within the vessel -
 Lubricating Oil lbs, No. and size one 5.11 gal per minute
 Air Compressors. No. of stages Diameters Stroke Driven by
 Scavenging Air Pps, No. Diameter Stroke Driven by

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

Can the internal sur 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 Receivers, No. Cubic capacity of each Internal diameter thickness

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

Starting Air Recers, No. Two Total cubic capacity 10 cu ft. Internal diameter 1'-6" thickness 5/16"

Seamless, lap welded riveted longitudinal joint seamless Material S.D. steel Range of tensile strength 26-30 Working pressure by Rules 398

ELECTRIC GENERATORS:—Type Open 4 pole Rating 50° F 6 hours O.L.

Pressure of supply 220 volts. Full Load Current 182 Amperes. Direct or Alternating Current Direct

If alternating current tem, state the periodicity Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off yes

Generators, are they compounded as per rule yes 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 slded that they cannot be accidentally earthed, short circuited, or touched yes Are the lubricating arrangements of the generators as per Rule yes

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

If the generators are 10 kw. or over have they been built and tested under survey

PLANS. Are appred plans forwarded herewith for Shafting 5.12.29 Receivers. Separate Tanks

SPARE GEAR One Governor spring, one cylinder liner, two pistons complete with rings, gudgeon pin & clips, six piston rings, four cylinder head studs & nuts, three fuel injectors complete with nozzles, six nozzle valves, three springs, six inlet & outlet valves complete, six inner & six outer valve springs, starting valve, one fuel pump complete, two bottom end bearings, one main bearing, one thrust bearing, two bottom end balls & nuts, two main bearing balls & nuts, one spare armature, two sets of brushes, two brush holders.

The foregoing is a correct description,

W. H. ALLEN, SONS & Co., Ltd.

Manufacturer.

H. H. Clarke.



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Dates of Survey while building { During progress of work in shops - - } 1936 Nov. 20. 27. 30. Dec. 11. 18. 21. 29. 1937 Jan 13. 15. 29.
{ During erection on board vessel - - - }
Total No. of visits 10

Dates of Examination of principal parts—Cylinders 18.12.36 Covers 27.11.36 Pistons 21.12.36 Piston rods 30.11.36

Connecting rods 30.11.36 Crank and Flywheel shaft 20.11.36 Intermediate shaft ✓

Crank and Flywheel shafts, Material Steel Identification Mark 440YDS 7152 MAB 23.10.36 HAG 11.12.36 440YDS 7151 MAB 23.10.36 HAG 11.12.36

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.)

These engines have been constructed under Special Survey in accordance with the requirements of the Rules and approved plans. The materials were made at Works approved by the Committee & tested in accordance with the requirements of the Rules, the workmanship is good & on completion the engines were tested under full power direct coupled to the generator, governing tests witnessed & found in order.

The sets have been dispatched to Hongkong for fitting on board.

1m.238.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £12-12-0 When applied for, 4 FEB 1937
Travelling Expenses (if any) £ 1-16-0 When received, 2/4/1937

A. K. Garrett
Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned See HKG JE 7928