

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 108800

Received at London Office 12 JUN 1940

Date of writing Report 5th June 1940 When handed in at Local Office 12 JUN 1940 Port of London
No. in Survey held at Bedford. Date, First Survey 12th April 40 Last Survey 16th May 1940
Reg. Book. Number of Visits 6

on the Single Screw vessel Tons { Gross _____ Net _____
Triple
Quadruple
Built at Hong Kong. By whom built Hing Kong & Co. for S.H.L. Yard No 836. When built _____
Port belonging to _____
Owners _____

Oil Engines made at _____ By whom made _____ Contract No. K/87506. When made 1940.
Generators made at Bedford. By whom made W. H. Allen Sons & Co. Ltd. Contract No. E/87507. When made 1940
No. of Sets 3. Engine Brake Horse Power 126 Nom. Horse Power as per Rule 72 Total Capacity of Generators 85 Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy oil 2 or 4 stroke cycle 4 Single or double acting single
Maximum pressure in cylinders 700 Diameter of cylinders 230 Z Length of stroke 300 No. of cylinders 3. No. of cranks 3
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 282 Z Is there a bearing between each crank yes
Revolutions per minute 575. Flywheel dia. 1200 Z Weight 2800 lbs Means of ignition Compression Kind of fuel used Diesel oil
Crank Shaft, dia. of journals as per Rule 132 Z as fitted 140 Z Crank pin dia. 150 Z Crank Webs Mid. length breadth 200 Z Thickness parallel to axis ✓
Mid. length thickness 70 Z Thickness around eye-hole ✓
Flywheel Shaft, diameter as per Rule _____ as fitted _____ Intermediate Shafts, diameter as per Rule _____ as fitted _____ Thickness of cylinder liners 17 Z.
Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication Lubed.
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. Two, centrifugal Is the sea suction provided with an efficient strainer which can be cleared within the vessel ✓
Lubricating Oil Pumps, No. and size One Rotary.
Air Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓
Scavenging Air Pumps, No. ✓ Diameter ✓ Stroke ✓ Driven by ✓

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. ✓ 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 Open type.
Pressure of supply 220 volts. Full Load Current 387 Amperes. Direct or Alternating Current Direct
If alternating current system, 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 shielded 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 under 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 100 kw. or over have they been built and tested under survey ✓

PLANS. Are approved plans forwarded herewith for Shifting 5.12.38. Receivers ✓ Separate Tanks ✓
(If not, state date of approval)

SPARE GEAR One inlet valve complete; one exhaust valve complete; one relief valve; one starting air valve; one injector; three nozzles; one set of piston rings; six cylinder head studs & nuts; 2 bottom end bolts & nuts; 2 main bearing bolts & nuts; one gudgeon pin & bush One bottom end bearing; one fuel injection pipe, one fuel pump complete one set of brush holders & brushes for generator etc.

The foregoing is a correct description.

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

R. A. Clarke. 5/6/40.



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005656-005670-0248

Dates of Survey while building { During progress of work in shops - - } 1940 April 12. 15. 17. 24 30. May 16.
 { During erection on board vessel - - - }
 Total No. of visits 6

Dates of Examination of principal parts—Cylinders 17.4.40 Covers 17.4.40 Pistons 30.4.40 Piston rods ✓
 Connecting rods 12.4.40 Crank and Flywheel shaft 12.4.40 30.4.40
 Crank and Flywheel shafts, Material *Steel* Identification Mark HAG 12.4.40 12.12.39 19.3.40 142 HAG 30.4.40
 Intermediate shafts, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case ✓ If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, &c.) *The Generating sets have been constructed under Special Survey in accordance with the requirements of the Rules and approved plans, the steel was made at Works approved by the Committee, the workmanship is good and on completion the sets were tested upon the bench under full and overload conditions with satisfactory results.*

The Generating sets have been dispatched to Hong Kong for fitting on board the vessel.

Im. 236.—Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 15-15-0
 Travelling Expenses (if any) £ 2-1-6

When applied for, 12 JUN 1940
 When received, 11th August 1940 R.B.F. 8/18

M. Cameth
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI, 12 SEP. 1941
 Assigned See No. J.C. 8793

