



REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 274

FEB 1938

Received at London Office... NOTTINGHAM

Date of writing Report... 19... When handed in at Local Office... 19... Port of... NOTTINGHAM

No. in Survey held at Lincoln... Date, First Survey... Last Survey... 19... Number of Visits... Tons Gross 5030 Net 2766

on the Twin Triple Quadruple Screw vessel... By whom built Barclay Curle... Yard No. 711... When built

Made to order of H.M. Spiers & Co... Port belonging to... Engines made at Lincoln... By whom made Ruston & Hornsby Ltd... Contract No. 460503... When made

Generators made at... By whom made Laurence Scott & Co. Ltd... Contract No... When made... of Sets 1... Engine Brake Horse Power 44... M.N. as per Rule 11... Total Capacity of Generators 26 Kilowatts

Set intended for essential services

IL ENGINES, &c.—Type of Engines 4VRHZ. Eng. No. 251652... 2 or 4 stroke cycle 4... Single or double acting SA

Maximum pressure in cylinders 300 lbs... Diameter of cylinders 4 1/2"... Length of stroke 5 1/2"... No. of cylinders 4... No. of cranks 4

Mean indicated pressure 112.5... Firing order in cylinders 1-3-4-2... Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6.15/16"

Is there a bearing between each crank Yes... Weight 420 lbs... Means of ignition Compression... Kind of fuel used Diesel Oil

Crank Shaft, dia. of journals 3"... Crank pin dia. 3"... Crank Webs Mid. length breadth 3 1/2"... Thickness parallel to axis 16"

Flywheel Shaft, diameter C shaft... Intermediate Shafts, diameter... General armature, moment of inertia (16 m^2 or Kg.-cm.^2)

Are means provided to prevent racing of the engine when declutched Yes... Means of lubrication Forced... Kind of damper if fitted

Are the cylinders fitted with safety valves No... Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

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

Lubricating Oil Pumps, No. and size one - 165 gals./hour. Engine driven

Air Compressors, No... No. of stages... Diameters... Stroke... Driven by

Exhausting Air Pumps, No... Diameter... Stroke... Driven by

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

Each receiver, which can be isolated, fitted with a safety valve as per Rule... What means are provided for cleaning their inner surfaces

Are there a drain arrangement fitted at the lowest part of each receiver... High Pressure Air Receivers, No... Cubic capacity of each... Internal diameter... thickness

Unless, lap welded or riveted longitudinal joint... Material... Range of tensile strength... Working pressure by Rules

Low Pressure Air Receivers, No... Total cubic capacity... Internal diameter... thickness

Unless, lap welded or riveted longitudinal joint... Material... Range of tensile strength... Working pressure by Rules

ELECTRIC GENERATORS:—Type... No. 203944... Pressure of supply 220 volts... Full Load Current 113 Amperes... Direct or Alternating Current D.C.

Is an alternating current system, state the periodicity... Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown 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 shielded that they cannot be accidentally earthed, short circuited, or touched Yes... Are the lubricating arrangements of the generators as per Rule Yes

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

Are there any shafts of driven machinery other than generator... Are approved plans forwarded herewith for Shafting 7.10.38... Receivers... Separate Tanks

Have Torsional Vibration characteristics if applicable been approved Not applicable... Armature shaft Drawing No... ARE GEAR To Rule Requirements

The foregoing is a certified copy

Thames 28 I 48 Engineering Divn. Manufacturer.



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See 107/148

002383-002591-0232

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 22.10.47. Covers 22.10.47. Pistons 22.10.47. Piston rods. -
 Connecting rods 22.10.47. Crank and Flywheel shafts 22.10.47. Intermediate shafts.

Crank shaft { Material..... Tensile strength.....
 { Elongation..... Identification Marks LL.1221. T.D.S. 3097.BW.

Flywheel shaft, Material..... Identification Marks.....

Identification marks on Air Receivers.....

Is this machinery duplicate of a previous case Yes If so, state name of vessel Standard.

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

This machinery has been built under Special Survey, in accordance with the approved plans and rules of the Society, material and workmanship being good.

On completion the generating set was tried in the shops under working conditions and found to be satisfactory.

The set has been forwarded to Glasgow for installation on board the vessel.

This generating set has been efficiently installed, examined under full working conditions & found satisfactory.

*B. D. Lusk
Glasgow*

2m.8.47.-E. (MADE AND PRINTED IN ENGLAND)
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 4 : 0 : 0 { When applied for 18-3-1947. Cat. C 576
 Travelling Expenses (if any) £ : : { When received 19

W. Scott
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 27 JUL 1948
 Assigned *See accompanying Machy Rpt.*

