

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 110,020

Received at London Office

11 NOV 1941

Date of writing Report 6-11-1941 When handed in at Local Office 11 NOV 1941 Port of Ipswich

No. in Survey held at Rowhedge. Date, First Survey 6 JUNE 1941 Last Survey 31 OCTOBER 1941
eg. Book. Number of Visits 16

Single
on the ~~Two~~
Triple
Quadruple

Screw vessel

"EMPIRE LAD"

Tons { Gross 298.18
Net

built at Rowhedge. By whom built Rowhedge Ironworks Co. Ltd. Yard No. 601 When built 1941.

owners Ministry of War Transport. Port belonging to Rowhedge.

Oil Engines made at Manchester. By whom made L. Gardner & Sons, Ltd. Contract No. S.5271/2 When made 1941

Generators made at Sunderland. By whom made Sunderland Forge Co. Contract No. S.F.8703/4 When made 1941

No. of Sets Two Engine Brake Horse Power each 9.5 Nom. Horse Power as per Rule each 2.7 Total Capacity of Generators 10 Kilowatts.

OIL ENGINES, &c.—Type of Engines 2 or 4 stroke cycle Single or double acting

Maximum pressure in cylinders Diameter of cylinders Length of stroke No. of cylinders No. of cranks

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge Is there a bearing between each crank

Revolutions per minute Flywheel dia. Weight Means of ignition Kind of fuel used

Crank Shaft, dia. of journals as per Rule as fitted Crank pin dia. Crank Webs Mid. length breadth Mid. length thickness Thickness parallel to axis Thickness around eyehole

Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Means of lubrication

Are the cylinders fitted with safety valves Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

Cooling 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

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

Scavenging Air Pumps, No. 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

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 efficient when the whole load is suddenly thrown on and off

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

SHAFTING

SHAFTING

The foregoing is a correct description.

Manufacturer.



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Lloyd's Register Foundation

012542-012548-0017

Dates of Survey while building { During progress of work in shops - - }
 { During erection on board vessel - - - } 1941: June 6-20 July 2-3-9-16-31 Aug 7-19 Sept 4-11 Oct 9-22-23-24-31
 Total No. of visits 16

Dates of Examination of principal parts—Cylinders _____ Covers _____ Pistons _____ Piston rods _____
 Connecting rods _____ Crank and Flywheel shafts _____ Intermediate shafts _____
 Crank and Flywheel shafts, Material _____ Identification Marks _____
 Intermediate shafts, Material _____ Identification Marks _____
 Identification marks on Air Receivers _____

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 electric generator sets, have been efficiently fitted on board this vessel, on port + on starb. side of engine room, and have been examined + tested under working conditions

(Manchester Reports No 10522 + 10569.)

100,111,127.—Transfer. (MADE IN ENGLAND.)
 (The Survivors are requested not to write on or below the space for Committee Minute.)

The amount of Fee £	:	:	When applied for,
			19.....
Travelling Expenses (if any) £	:	:	When received,
			19.....

Dynsell
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI. 9 JAN 1942**
 Assigned *See fe. machy spl.*