

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 16764

Received at London Office

Writing Report 1st Oct. 19 47 When handed in at Local Office 9.1.19 48 Port of BRISTOL

Survey held at Dursley, Glos Date, First Survey 10th April, 47 Last Survey 17th Sept. 19 47

on the Single } Screw vessel } Tons { Gross...  
Twin }  
Triple }  
Quadruple }

By whom built... Yard No... When built...

Port belonging to...

Engines made at Dursley By whom made R.A. Lister (Marine Sales) Ltd Engine No. 60/29280 When made 1947

Sets made at... By whom made... Contract No... When made...

Engine Brake Horse Power 38 M.N. as per Rule... Total Capacity of Generators... Kilowatts.

Intended for essential services...

ENGINES, &amp;c.—Type of Engines Heavy Oil, Airless Injection 2 or 4 stroke cycle 4 Single or double acting single

Working pressure in cylinders 800 lbs Diameter of cylinders 4 1/2" Length of stroke 5 1/2" No. of cylinders 4 No. of cranks 4

Firing order in cylinders... Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 14.5/16"

Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>)... Revolutions per minute 1100

Weight 310 lbs Means of ignition compression Kind of fuel used heavy oil

Crank pin dia. 3" Crank Webs Mid. length breadth 4 1/2" Thickness parallel to axis...

Crank pin dia. 3" Crank Webs Mid. length thickness 3 1/2" Thickness round eyehole...

General armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>)...

Means of lubrication Forced Kind of damper if fitted...

Are the exhaust pipes and silencers water cooled or lagged with non-conducting material...

Is the sea suction provided with an efficient strainer which can be cleared within the vessel...

No. and size...

No. of stages... Diameters... Stroke... Driven by...

Diameter... Stroke... Driven by...

No. of stages... Diameters... Stroke... Driven by...

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

receiver, which can be isolated, fitted with a safety valve as per Rule...

What means are provided for cleaning their inner surfaces...

a drain arrangement fitted at the lowest part of each receiver...

Cubic capacity of each... Internal diameter... thickness...

Material... Range of tensile strength... Working pressure by Rules...

Total cubic capacity... Internal diameter... thickness...

Material... Range of tensile strength... Working pressure by Rules...

Type...

volts. Full Load Current Amperes. Direct or Alternating Current...

Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

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

Are they so spaced

Are the lubricating arrangements of the generators as per Rule...

and do the results comply with the requirements...

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

of driven machinery other than generator...

Receivers... Separate Tanks...

Armature shaft Drawing No...

In accordance with Rule requirements.

The foregoing is a correct description,

P.P. R. A. LISTER (MARINE SALES) LTD Manufacturer.



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Dates of Survey while building { During progress of work in shops - - 10.4.47 23.5.47 17.9.47  
During erection on board vessel - - -  
Total No. of visits 3

Dates of Examination of principal parts—Cylinders 23.5.47 Covers Pistons 23.5.47 Piston rods

Connecting rods 23.5.47 Crank and Flywheel shafts 10.4.47 Intermediate shafts

Crank shaft { Material Steel Tensile strength 41.6 tons  
Elongation 27% Identification Marks Lloyd's 99 S

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

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

This Auxiliary Oil Engine has been built under Special Survey. Water jackets tested with hydraulic pressure 100 lbs. per sq. inch and found sound and tight. The workmanship and material have been found good. Crankshaft taken from Maker's stock, test pieces proved satisfactory. On assembly the engine examined during a full load test bed running trial of several hours during which governor tried and found satisfactory.

Identification Marks M.1713 S. Engine made to the order of Messrs. John I. Thornycroft

The amount of Fee ... £ 4 : 0 : 0 When applied for 9.1.1948

Travelling Expenses (if any) £ 1 : 0 : 0 When received 19

Committee's Minute

14  
Fri 20 Feb 1948

Assigned

Sir F.E. Moly. rph

J. Brooke Smith  
Surveyor to Lloyd's Register of Shipping.



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