

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 18591

Received at London Office

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of writing Report 23rd Jan. 19 52 When handed in at Local Office 23rd Jan. 19 52 Port of BRISTOL

Survey held at Dursley, Glos. Date, First Survey 11th December, 51 Last Survey 17th January 52

Book. Single on the Twin Triple Quadruple Screw vessel "KESTREL C" Number of Visits 3

at 83.84 By whom built Yard No. 1932 When built

Port belonging to Yes

Engines made at Dursley By whom made R.A. Lister (Marine Sales) Ltd Engine No. 392856 When made 1952

Generators made at By whom made Generator No. When made

of Sets B.H.P. of each Set 14 M.N. as per Rule Capacity of each Generator Kilowatts.

et intended for essential services.

ENGINES, &c.—Type of Engines heavy oil, airless injection, CEM 2 or 4 stroke cycle 4 Single or double acting single

imum pressure in cylinders 800lbs Diameter of cylinders 4 1/2" Length of stroke 4 3/8" No. of cylinders 2 No. of cranks 2

Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 2.11/16" 4 1/16"

here a bearing between each crank. Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) 350lbs

Weight 350lbs Means of ignition compression Kind of fuel used heavy oil

nk Shaft, Solid forged dia. of journals 2 3/8" Crank pin dia. 2 1/2" Crank Webs 1 1/2" Mid. length thickness 1 1/2"

wheel Shaft, diameter as per Rule Generator armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>)

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

the cylinders fitted with safety valves Are the exhaust pipes and silencers water cooled Yes

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

ricating Oil Pumps, No. and size

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

enging Air Pumps or Blowers, No. How driven

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

(other than main engines) e full details of safety devices

the internal surfaces of the receivers be examined and cleaned

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

Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

less, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure

ting Air Receivers, No. Total cubic capacity Internal diameter thickness

less, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure

ELECTRIC GENERATORS:—Type

sure of supply volts. Full Load Current Amperes Direct or Alternating Current

Alternating current system, state the periodicity 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

all terminals accessible, clearly marked, and furnished with sockets Are they so spaced

ielded that they cannot be accidentally earthed, short circuited, or touched Are the lubricating arrangements of the generators as per Rule

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

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

ils of driven machinery other than generator

INS.—Are approved plans forwarded herewith for Shafting Receivers Separate Tanks

Torsional Vibration characteristics if applicable been approved Armature shaft Drawing No.

the spare gear required by the Rules been supplied

The foregoing is a correct description,

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



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During progress of work in shops - 11.12.51 8.1.52 17.1.52  
 Dates of Survey while building During erection on board vessel - -  
 Total No. of visits 3  
 Dates of Examination of principal parts - Cylinders 8.1.52 Covers 8.1.52 Pistons 8.1.52 Piston rods - -  
 Connecting rods 8.1.52 Crank and Flywheel shafts 11.12.51 Intermediate shafts -  
 Crank shaft Material Steel Tensile strength 43.38 tons  
 Elongation 29% Identification Marks Lloyd's 135  
 Flywheel shaft, Material 382886 Identification Marks  
 Identification marks on Air Receivers 14

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 square inch and found sound and tight. The workmanship and materials have been found good. Crankshaft taken from Maker stock, test pieces proved satisfactory. After assembly the engine examined during a full load test bed running trial of several hours duration; governor examined and found satisfactory.

Identification Mark M.3543. Engine made to the order of Messrs. Woodward.

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The amount of Fee ... £ 5 : 0 : 0 When applied for 19  
 Travelling Expenses (if any) £ 1 : 0 : 0 When received 19

*P. E. Ward*

Surveyor to Lloyd's Register of Shipping.

FRI. 20 JUN 1952

Committee's Minute  
 Assigned *Sir F. E. Moly. rpt. Lps. 124711*