

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 18601

Lon. 124941



Received at London Office

Date of writing Report 28th Jan. 19 52 When handed in at Local Office 28th Jan 19 52 Port of BRI STOL

No. in Survey held at Dursley, Glos.

Date, First Survey 11th December, 51 Last Survey 25th January 19 52

Reg. Book.

Number of Visits 3

Single  
on the Twin  
Triple  
Quadruple  
Screw vessel

M.S. "KINGFISHER C"

Tons } Gross.....  
Net.....

Built at Wivenhoe

By whom built J. W. Book &amp; Co. Ltd.

Yard No. 1048

When built

Owners

Port belonging to

Oil Engines made at Dursley

By whom made R.A. Lister (Marine Sales) Ltd

Engine No. 392855

When made 1952

Generators made at

By whom made

Generator No.

When made

No. of Sets

B.H.P. of each Set 14

M.N. as per Rule

Capacity of each Generator

Kilowatts.

s Set intended for essential services

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

Maximum pressure in cylinders 800lbs

Diameter of cylinders 4 1/8"

Length of stroke 4 3/8"

No. of cylinders 2

No. of cranks 2

Mean indicated pressure

Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 4.11/16"

Is there a bearing between each crank Yes

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

Revolutions per minute 1000

Flywheel dia. 23"

Weight 350lbs

Means of ignition compression

Kind of fuel used heavy oil

Crank Shaft, { Solid forged  
Semi-built dia. of journals  
All-builtas per Rule  
as fitted 2 3/8"

Crank pin dia. 2 3/4"

Crank Webs

Mid. length breadth 3 1/2"  
Mid. length thickness 1 1/8" shrunkThickness parallel to axis  
Thickness round eye-hole

Flywheel Shaft, diameter

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

Are means provided to prevent racing of the engine Yes

Means of lubrication Forced

Kind of damper if fitted

Are the cylinders fitted with safety valves

Are the exhaust pipes and silencers water cooled ~~XXXXXXXXXXXXXXXXXXXX~~ Yes

Cooling Water Pumps, No. and how driven

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 or Blowers, No.

How driven

AIR RECEIVERS:—Have they been made under Survey

State No. of Report or Certificate

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

Can the internal surfaces of the receivers be examined and cleaned

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

Starting Air Receivers, No.

Total cubic capacity

Internal diameter

thickness

Seamless, lap welded or riveted longitudinal joint

Material

Range of tensile strength

Working pressure

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 as per Rule when full 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

Are they 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

Details of driven machinery other than generator

PLANS.—Are approved plans forwarded herewith for Shafting

Receivers

Separate Tanks

(If not, state date of approval)

Have Torsional Vibration characteristics if applicable been approved

Armature shaft Drawing No.

(State date of approval and name of previous duplicate case, if any)

Has 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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Lloyd's Register  
Foundation

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Dates of Survey while building { During progress of work in shops - - 11.12.51 8.1.52 25.1.52  
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 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 square inch and found sound and tight. The workmanship and materials have been found good. Crankshaft taken from Makers' 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.3542. Engine made to the order of Messrs. Woodward.

30.11.51.—T. (MADE AND PRINTED IN ENGLAND)  
(The Surveyors are requested not to write on or below the space for Committee Minute.)

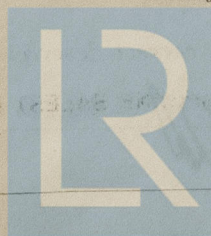
The amount of Fee ... £ 5 : 0 : 0 { When applied for 19  
Travelling Expenses (if any) £ 1 : 0 : 0 { When received 19

FRI. 1 AUG 1952

Committee's Minute

Assigned No Action // See J.B. Rpt.

Surveyor to Lloyd's Register of Shipping.



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