

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No.

124359

Date of writing Report 19/3/52 19

When handed in at Local Office

1/4/52

Port of

Received at London Office

Sparwich

No. in Survey held at

Bolchester

Date, First Survey

22/10/51

Last Survey

21/2/52

19

Reg. Book.

Number of Visits

2

Single
on the Twin
Triple
Quadruple

Screw vessel

CUTTER "KARITEA"

Tons

Gross

Net

Built at

By whom built

Chas Hill & Sons Ltd

Yard No.

380

When built

Owners

Port belonging to

Oil Engines made at

Bolchester

By whom made

Davey Paxman & Co Ltd

Contract No.

52576

When made

2/52

Generators made at

By whom made

Haworth & Co Ltd

Contract No.

1858153

When made

1952

No. of Sets

1

Engine Brake Horse Power

180

M.N. as per Rule

Total Capacity of Generators

120

Kilowatts

Set intended for essential services

OIL ENGINES, &c.—Type of Engines

Heavy Oil Type 6 RP42

2 or 4 stroke cycle

4

Single or double acting

Single

Maximum pressure in cylinders

850 lb.

Diameter of cylinders

7"

Length of stroke

7 3/4"

No. of cylinders

6

No. of cranks

6

Mean indicated pressure

110 lb.

Firing order in cylinders

1. 2. 4. 6. 5. 3.

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge

7.1"

Is there a bearing between each crank

Yes

Moment of inertia of flywheel (16 m² or Kg.-cm.²)6.5 2920 16/16²

Revolutions per minute

1000

Flywheel dia

2.7 3/4"

Weight

650 lb.

Means of ignition

Compression

Kind of fuel used

Pool Diesel

Crank Shaft, dia. of journals

4 1/2"

as fitted

Crank pin dia.

4 1/8"

Crank Webs

Mid. length breadth

7"

Thickness parallel to axis

shrunken

Mid. length thickness

1 1/2"

Thickness round eyehole

shrunken

Flywheel Shaft, diameter

as per Rule

Intermediate Shafts, diameter

as per Rule

General armature, moment of inertia (16 m² or Kg.-cm.²)

Are means provided to prevent racing of the engine when de-clatched

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

Paper

Cooling Water Pumps, No.

1 F.W. & 1 R.W.

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

Lubricating Oil Pumps, No. and size

One sea driven - 1200 gallons per hour

Air Compressors, No.

No. of stages

Diameters

Stroke

Driven by

Savenging 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

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

Drip Proof Continuous Latent

Pressure of supply

220 volts

Full Load Current

545

Amperes

Direct or Alternating Current

Direct

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

Are they so spaced

Are the generators shielded that they cannot be accidentally earthed, short circuited, or touched

Are the lubricating arrangements of the generators as per Rule

Do the generators are under 100 kw. full load rating, have the makers supplied certificates of test

and do the results comply with the requirements

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

Yes

Do the tails of driven machinery other than generator

Haworth Pump not attached at time of shop trials

PLANS.—Are approved plans forwarded herewith for Shafting

No

10/12/51

Receivers

Separate Tanks

Have Torsional Vibration characteristics if applicable been approved

Yes

Armature shaft Drawing No.

ARE GEAR

Not attached

The foregoing is a correct description,

For DAVEY PAXMAN & CO. LIMITED

Manufacturer.



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Lloyd's Register
Foundation

008401-008408-0061

Dates of Survey while building { During progress of work in shops - - 22/10/51. 2/2/52.
 { During erection on board vessel - - 2 (In shops)
 Total No. of visits 2 (In shops)

Dates of Examination of principal parts—Cylinders 22/10/51 Covers 22/10/51 Pistons 22/10/51 Piston rods
 Connecting rods 22/10/51 Crank and Flywheel shafts 28/6/51 22/10/51 Intermediate shafts
 Crank shaft { Material Steel Tensile strength 47.5 59.0 Tons 7/2 LD 49.0/2
 { Elongation 22% Identification Marks L.R. 300 A. C.D.
 Flywheel shaft, 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.).....

This diesel engine has been built under survey in accordance with plans approved and the requirements of the rules. Steel used in the manufacture has been made at works approved by the Committee and under the supervision of the Society's Surveyors. The workmanship is good, and on completion, the generating set was tested in the shop at full load and 10% overload, when governor was tried and all found to be in order. The "Hamworthy" Pump to be driven by this auxiliary was not available at the time of the test but trial and is to be attached on board. This generating set, when satisfactorily installed on board, is in my opinion eligible for inclusion in + L.M.C.

5m. 1.38.—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 ... £ 9 : — : — When applied for 1/4/ 19 52
 Travelling Expenses (if any) £ — : 17 : 6 When received 19

Committee's Minute.....

Assigned See F.E. mchly 1/11

TUES. 23 SEP 1952

Surveyor to Lloyd's Register of Shipping.



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