

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 18386

Received at London Office

26 SEP 1951

Rules of writing Report. 3rd Sept 19 51 When handed in at Local Office. 3rd Sept 19 51 Port of BRISTOL

Survey held at Sharpness Date, First Survey 25th January 49 Last Survey 29th August 19 51

on the Twin Screw vessel "CHRISTINA DAWN" ex LCG(M) 120 Number of Visits 18.4.53 Tons Gross 312.55 Net

at London By whom built General Steam Navigation Co. Yard No. When built 1945

ners I. P. Langford (Shipping) Ltd. Port belonging to Gloucester

Engines made at Dursley By whom made R.A. Lister (Marine Sales) Ltd. Contract No. CS.45700 When made

erators made at By whom made Contract No. When made

of Sets one Engine Brake Horse Power 9 M.N. as per Rule 2.02 Total Capacity of Generators Kilowatts.

let intended for essential services Yes

L ENGINES, &c.—Type of Engines heavy oil, airless injection, 1JPM 2 or 4 stroke cycle 4 Single or double acting single

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

in indicated pressure Firing order in cylinders Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6 3/4

here a bearing between each crank Moment of inertia of flywheel (16 m² or Kg.-cm.²) Revolutions per minute 1000

wheel dia 26 Weight 310 lbs Means of ignition compression Kind of fuel used diesel oil

ink Shaft, dia. of journals as per Rule 3 Crank pin dia 3 Crank Webs Mid. length breadth 4 1/2 Thickness parallel to axis

wheel Shaft, diameter as fitted Intermediate Shafts, diameter as fitted General armature, moment of inertia (16 m² or Kg.-cm.²)

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

the cylinders fitted with safety valves No Are the exhaust pipes and silencers water cooled or lagged with non-conducting material lagged

14 Sling Water Pumps, No. one - engine driven Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Oil Pumps, No. and size one - engine driven

Compressors, No. none No. of stages Diameters Stroke Driven by

enging Air Pumps, No. none Diameter Stroke Driven by

R RECEIVERS:—Have they been made under Survey none - hand starting only State No. of Report or Certificate

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

The internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces

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

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

inless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

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

inless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS:—Type English Electric Co. comutator excitation, continuous rating

ssure of supply 220 volts Full Load Current 33.8 Amperes Direct or Alternating Current D.C.

lternating current system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

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

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

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

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

he generators are 100 kw. or over have they been built and tested under survey No

ails of driven machinery other than generator Auxiliary Bilge & Ballast Pump Mono type 30 tons hr.

ANS.—Are approved plans forwarded herewith for Shafting No Receivers Separate Tanks

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

IRE GEAR

The foregoing is a correct description,

Manufacturer.



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015224-015232-0365

During progress of work in shops - - -
 Dates of Survey while building
 During erection on board vessel - - -
 Total No. of visits
 Dates of Examination of principal parts—Cylinders 27.4.51 Covers 27.4.51 Pistons 27.4.51 Piston rods -
 Connecting rods 27.4.51 Crank and Flywheel shafts 27.4.51 Intermediate shafts -
 Crank shaft Material - Tensile strength -
 Elongation - Identification Marks -
 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 Auxiliary Oil Engine was not built under survey but is a standard approved type.
 The engine opened out and cylinder cover, cylinder, piston, connecting rod, crankshaft bearings, pin journals examined and found in order.

The engine now installed in the above vessel and seen under full load conditions with satisfactory results.

This engine has been installed for the purpose of supplying power for the steering gear only, and supplementary to the two Davey Paxman auxiliary sets originally fitted for auxiliary power.

English Electric Co. commutator excitation, continuous rating

D.C.

22.8

220

Yes

Yes

Yes

No

Auxiliary Biline & Ballast Pump Mono type 20 tons hr.

No

The amount of Fee ... £ 22: letters

When applied for 19

Travelling Expenses (if any) £ :

When received 19

Committee's Minute

TUES. 6 NOV 1951

Assigned

Su F.E. mchly spl

Surveyor to Lloyd's Register of Shipping.



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