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REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 17620

Received at London Office 3 JAN 1950

Date of writing Report 21st Dec. 19 49 When handed in at Local Office 21st Dec. 19 49 Port of BRISTOL

No. in Reg. Book. Survey held at Dursley, Glos. Date, First Survey 18th November Last Survey 20th December 49 Number of Visits 2

on the ^{Single} ~~Twin~~ ~~Triple~~ ~~Quadruple~~ Screw vessel "Soya Christina" Tons Gross Net

Built at By whom built Yard No. When built

Owners Port belonging to

Oil Engines made at Dursley By whom made R.A. Lister (Marine Sales) Ltd. Engine No. 71/54351 When made 1949

Generators made at By whom made Contract No. When made

No. of Sets Engine Brake Horse Power 48 M.N. as per Rule Total Capacity of Generators Kilowatts

Is Set intended for essential services

OIL ENGINES, &c.—Type of Engines Heavy Oil Airless Injection, 616 Type 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 800 lbs Diameter of cylinders 4 1/2" Length of stroke 5 1/2" No. of cylinders 6 No. of cranks 6

Mean indicated pressure Firing order in cylinders Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 12.5/16"

Is there a bearing between each crank No Moment of inertia of flywheel (16 m² or Kg.-cm.²) Revolutions per minute 1000

Flywheel dia. 20 1/2" Weight 250 lbs Means of ignition compression Kind of fuel used heavy oil

Crank Shaft, dia. of journals as per Rule 3" Crank pin dia. 3" Crank Webs Mid. length breadth 4 1/4" Thickness parallel to axis 2" Mid. length thickness 2" shrunk Thickness round eye hole

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 declutched 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 or lagged Yes

Cooling Water Pumps, No. 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, No. Diameter Stroke Driven by

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

Is 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

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

or 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

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

SPARE GEAR

The foregoing is a correct description,
P.P. R. A. LISTER (MARINE SALES) LTD. Manufacturer.



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Lloyd's Register Foundation

004653-004661-0115

Dates of Survey while building { During progress of work in shops - -) 18.11.49 20.12.49
 { During erection on board vessel - -)
 Total No. of visits 2

Dates of Examination of principal parts—Cylinders 18.11.49 Covers _____ Pistons 18.11.49 Piston rods _____
 Connecting rods 18.11.49 Crank and Flywheel shafts _____ Intermediate shafts _____

Crank shaft { Material Steel Tensile strength 46 tons
 { Elongation 28% Identification Marks Lloyd's V.241

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 materials have been found good. Crankshaft taken from Makers' tested stock. After assembly the engine examined during a full load test bed running trial of several hours duration; governor tried and found satisfactory.

Identification Mark M.3228 Engine made to the order of Messrs. Campbell & Isherwood Ltd.

500.1.18.—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 ... £ 4 : 0 : 0 { When applied for 19
 Travelling Expenses (if any) £ 1 : 0 : 0 { When received 19

FRI. 5 MAY 1950

J. Brooke Smith

Surveyor to Lloyd's Register of Shipping.

FRI. 5 MAY 1950

Committee's Minute _____

Assigned *Not for Classing Committee No Action / See F.E. reg. 1947*

