

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 15404

OCT 12 1938

Received at London Office

Date of writing Report

19

When handed in at Local Office

19

Port of

Amsterdam

No. in Survey held at

Amsterdam

Date, First Survey

11th May

Last Survey

11th Sept 1938

Reg. Book.

Number of Visits

5

Single
on the Twin
Triple
Quadruple

Screw vessel

SCOTTISH CO-OPERATOR

Tons

Gross

Net

Built at Amsterdam

By whom built H. J. Ind. Ing. De Noord

Yard No. 574

When built 1930

Owners Scottish Co-Operator Wholesale Society Ltd

Port belonging to

Leith

Oil Engines made at Amsterdam

By whom made H. J. Kromhout Mot. Fab.

Contract No. 8643

When made 1930

Generators made at Uithoorn

By whom made J. J. Goedkoop

Contract No.

When made 1930

No. of Sets 1 Engine Brake Horse Power 13 Nom. Horse Power as per Rule 13.5 Total Capacity of Generators 7.5 Kilowatts.

OIL ENGINES, &c.—Type of Engines Kromhout type 1 LSV 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 55 h.p. Diameter of cylinders 100 mm Length of stroke 152.4 mm No. of cylinders 1 No. of cranks 1

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 117.56 mm Is there a bearing between each crank

Revolutions per minute 1300 Flywheel dia. 660 mm Weight 240 h.p. Means of ignition Compression Kind of fuel used Gas Oil

Crank Shaft, dia. of journals as per Rule 440 as fitted 0.55 mm Crank pin dia. 66.67 mm Crank Webs Mid. length breadth 131 mm Thickness parallel to axis shrunk Mid. length thickness 27.8-30.89 mm Thickness around eyehole

Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 3 mm

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication forced

Are the cylinders fitted with safety valves Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

Cooling Water Pumps, No. 1 a 1300 liters p. hour Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 1 a 600 liters p. hour

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 G 120

Pressure of supply 220 volts Full Load Current 34 Amperes Direct or Alternating Current Direct current

If alternating current system, state the periodicity Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on 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 Yes

Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Yes 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

PLANS. Are approved plans forwarded herewith for Shafting 8/1/38 Receivers Separate Tanks

SPARE GEAR As per rule.

The foregoing is a correct description,

KROMHOUT MOTOREN FABRIEK

D. Goedkoop Jr. N.V.

Manufacturer.



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Lloyd's Register
Foundation

010461-010465-0025

Dates of Survey while building { During progress of work in shops - -
During erection on board vessel - - -
Total No. of visits 5

May 11-17 June 13. July 26. Sept 21

Dates of Examination of principal parts—Cylinders 11/5 Covers 11/5 Pistons 11/5 Piston rods ✓

Connecting rods 11/5 Crank and Flywheel shafts 10/5-11/5 Intermediate shafts ✓

Crank and Flywheel shafts, Material S.M. Steel Identification Marks LLOYD'S
No 0960 G.R.C.
H.P.B. 17-5-30.

Intermediate shafts, 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 engine has been constructed under Special Survey in accordance with the Society's rules and regulations approved plan and Secretary letter. The material used in the construction was found to be good and workmanship satisfactory. This engine has been tested on makers test bed under full load condition and found working satisfactory.

The amount of Fee ... £ f 30.00 :

When applied for,
7.10.19.38

Travelling Expenses (if any) £ f 2.00 :

When received,
30.11.19.38

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE 21 FEB 1939

Assigned

Sec Rot. J.C. 27793



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