

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. Ny. De Noord Yard No. 574 When built 1930
Owners Scottish Co-operators Wholesale Society Ltd Port belonging to Leith

Oil Engines made at Amsterdam By whom made H. J. Kromhout Mot. Fab. ONY Contract No. 0643 When made 1930
Generators made at Ulkerveer By whom made D. Goedkoop Contract No. _____ When made 1930

No. of Sets 1 Engine Brake Horse Power 13 Nom. Horse Power as per Rule 175 Total Capacity of Generators 75 Kilowatts.

OIL ENGINES, &c.—Type of Engines Kromhout type 16SV 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 02.55 mm Crank pin dia. 66.67 mm Crank Webs Mid. length breadth 131 mm Thickness parallel to axis _____ Mid. length thickness 27.8-30.09 mm Thickness around eye-hole _____

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 @ 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 @ 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 0/1/30 Receivers Separate Tanks

SPARE GEAR As per rule

The foregoing is a correct description,
KROMHOUT MOTOREN FABRIEK
D. Goedkoop Jr. N.V.
[Signature]

Manufacturer.



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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 $\frac{11}{5}$ Covers $\frac{11}{5}$ Pistons $\frac{11}{5}$ Piston rods ✓

Connecting rods $\frac{11}{5}$ Crank and Flywheel shafts $\frac{10}{5} - \frac{17}{5}$ 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.*

1m. 5. 37. - Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee £ *f 30.00* : When applied for, *7.10.1938*
 Travelling Expenses (if any) £ *f 2.00* : When received, *30.11.1938*

H. Fry
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE 21 FEB 1938

Assigned

See Ref. F.C. 27793



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