

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 15404A

Received at London Office

OCT 12 1938

Date of writing Report 19 When handed in at Local Office 19 Port of Amsterdam
No. in Survey held at Amsterdam Date, First Survey 18th March Last Survey 1st Oct 1938
Reg. Book. Number of Visits 10

on the Single Twin Triple Quadruple Screw vessel SCOTTISH CO-OPERATER Tons { Gross _____ Net _____
Built at Amsterdam By whom built A. J. Ind. by "De Noord" Yard No. 574 When built 1930
Owners Scottish Co-operative Wholesale Society Ltd. Port belonging to Leith
Oil Engines made at Amsterdam By whom made A. J. Kromhout Mot. fab. Contract No. 8641/41 When made 1930
Generators made at Uitkerker By whom made Smit Contract No. _____ When made 1930
No. of Sets 2 Engine Brake Horse Power 2x52 Nom. Horse Power as per Rule 2x42 Total Capacity of Generators 2x35 Kilowatts.

OIL ENGINES, &c.—Type of Engines Kromhout type 4-Lo. S. V. 2 or 4 stroke cycle 4 Single or double acting Single
Maximum pressure in cylinders 55 k.g./m² Diameter of cylinders 100 mm Length of stroke 152.4 mm No. of cylinders 4 No. of cranks 4
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 115 mm Is there a bearing between each crank Yes
Revolutions per minute 1300 Flywheel dia. 660 mm Weight 240 k.g. Means of ignition Compression Kind of fuel used Gas Oil
Crank Shaft, dia. of journals as per Rule 44.5 mm as fitted 44.55 mm Crank pin dia. 66.67 mm Crank Webs Mid. length breadth 131 mm Thickness parallel to axis _____
Mid. length thickness 270 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. 1a 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 1a 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 320
Pressure of supply 110 volts. Full Load Current 100 Amperes. Direct or Alternating Current Direct
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 _____
(If not, state date of approval)

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 - - } *March 10-21; April 25; May 11-13; June 13;*
 { During erection on board vessel - - - } *Sept: 11-13-30; Oct 1*
 Total No. of visits *10*

Dates of Examination of principal parts—Cylinders *2/3* Covers *2/3 - 2/9* Pistons *1/5* Piston rods ✓

Connecting rods *1/5* Crank and Flywheel shafts *18/3 - 2/9* Intermediate shafts ✓

Crank and Flywheel shafts, Material *V. M. Steel* Identification Marks *LLOYDS No 7074 M.A.B. H.K. 10-3-30* *LLOYDS No 8949 M.A.B. H.K. 11-9-30.*

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. *The Auxiliary engines have been constructed under Special Survey in accordance with the Society's rules and regulations approved plan and Secretary letters. The material used in the construction was found to be good and workmanship satisfactory. The engines have been tested on makers test bed under full load condition and found working satisfactory.*

The amount of Fee ... £ *120.00* : When applied for, *17-10-1920*
 Travelling Expenses (if any) £ *5.00* : When received, *30-1-1921*

M. Gray
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned

TUE 21 FEB 1920
Sec Rot. J.E 27793



1m.53r.—Transfer.
 (The Surveyors are requested not to write on or below the space for Committee Minute.)