

## 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 AmsterdamNo. in Survey held at Amsterdam  
Reg. Book.Date, First Survey 18th March Last Survey 1st Oct 1938Number of Visits 10Single  
on the Twin  
Triple  
Quadruple

Screw vessel

SCOTTISH CO-OPERATER

Tons { Gross  
NetBuilt at Amsterdam By whom built H. J. Ind. by "De Noord" Yard No. 574 When built 1930Owners Scottish Co-operative Wholesale Society Ltd. Port belonging to LeithOil Engines made at Amsterdam By whom made H. J. Kromhout Mot. fab. Contract No. 8641/41 When made 1930Generators made at Uitkenven By whom made Smit Contract No. — When made 1930No. of Sets 1 Engine Brake Horse Power 1X51 Nom. Horse Power as per Rule 1X12 Total Capacity of Generators 1X35 Kilowatts.OIL ENGINES, &c.—Type of Engines Kromhout type 4-Lo S. V. 2 or 4 stroke cycle 4 Single or double acting SingleMaximum pressure in cylinders 55 kg/cm<sup>2</sup> Diameter of cylinders 100 mm Length of stroke 151.4 mm No. of cylinders 4 No. of cranks 4Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 115 mm Is there a bearing between each crank YesRevolutions per minute 1300 Flywheel dia. 660 mm Weight 140 kg. Means of ignition Compression Kind of fuel used Gas OilCrank Shaft, dia. of journals as per Rule 44 mm as fitted 42.55 mm Crank pin dia. 66.67 mm Crank Webs Mid. length breadth 131 mm Mid. length thickness 27.0 mm Thickness parallel to axis — Thickness around eyehole —Flywheel Shaft, diameter as per Rule — as fitted — Intermediate Shafts, diameter as per Rule — as fitted — Thickness of cylinder liners 3 mmIs a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication forcedAre 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 320Pressure of supply 110 volts. Full Load Current 100 Amperes. Direct or Alternating Current DirectIf 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 YesGenerators, are they compounded as per rule Yes is an adjustable regulating resistance fitted in series with eachshunt field Yes Are all terminals accessible, clearly marked, and furnished with sockets YesAre 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 RuleIf the generators are under 100 kw. full load rating, have the Makers supplied certificates of test — and do the results comply with the requirementsIf 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 —  
(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.

Manufacturer.



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Lloyd's Register  
Foundation

010461-010465-0024



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: 21-23-30; 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. LLOYDS No 8949 M.A.B. H.K. 10-3-30 H.K. 21-9-30.*  
 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, *7-10-1920*  
 Travelling Expenses (if any) £ *5.00* : When received, *30-1-1921*

*M. Wright*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute *TUE 21 FEB 1920*  
 Assigned *Sec Rot. J.E 27793*