

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 15660

Received at London Office

MAY 24 1939

Date of writing Report 13 May 1939 When handed in at Local Office 10 Port of Amsterdam

No. in Survey held at Amsterdam Date, First Survey 24 January Last Survey 25 April 1939  
Reg. Book. Amsterdam Number of Visits 11

on the <sup>Single</sup> ~~Twin~~ ~~Triple~~ ~~Quadruple~~ Screw vessel

## "SAIDJA"

Tons { Gross \_\_\_\_\_  
Net \_\_\_\_\_

Built at Rotterdam By whom built Rotterdam dyckhoff & Co. Yard No. 213 When built 1939

Owners Red. Indische Stoomboot Maatschappij Port belonging to S. G. Groenbagg

Oil Engines made at Amsterdam By whom made N. P. Kromhout Mot. Fabr. Contract No. 9092 When made 1939

Generators made at Stekhoven By whom made Willem Smit & Co. Contract No. 23573 When made 1939

No. of Sets 1 Engine Brake Horse Power 32 Nom. Horse Power as per Rule 0 Total Capacity of Generators 10 Kilowatts.

**OIL ENGINES, &c.**—Type of Engines Kromhout 2K53 2 or 4 stroke cycle 2 Single or double acting single

Maximum pressure in cylinders 45 kg Diameter of cylinders 170 mm Length of stroke 225 mm No. of cylinders 2 No. of cranks 2

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 274 mm Is there a bearing between each crank Yes

Revolutions per minute 400 Flywheel dia. 1000 mm Weight 475 kg Means of ignition ohm type Kind of fuel used Diesel oil

Crank Shaft, dia. of journals <sup>as per Rule approved</sup> <sub>as fitted 95 mm</sub> Crank pin dia. 95 mm Crank Webs <sup>Mid. length breadth 150 mm</sup> <sub>Mid. length thickness 55 mm</sub> Thickness parallel to axis shrunk Thickness around eyehole —

Flywheel Shaft, diameter <sup>as per Rule —</sup> <sub>as fitted —</sub> Intermediate Shafts, diameter <sup>as per Rule —</sup> <sub>as fitted —</sub> Thickness of cylinder liners —

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 Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material water cooled

Cooling Water Pumps, No. 12 rotary 3000 rpm Is the sea suction provided with an efficient strainer which can be cleared within the vessel —

Lubricating Oil Pumps, No. and size 12 rotary 225 rpm

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 Yes State No. of Report or Certificate —

Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes

Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces cover

Is there a drain arrangement fitted at the lowest part of each receiver Yes

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. one Total cubic capacity 75 l Internal diameter 250 mm thickness 7 mm

Seamless, lap welded or riveted longitudinal joint Seamless Material SA5 Range of tensile strength 44-50 kg Working pressure by Rules approved  
act = 25 kg

**ELECTRIC GENERATORS:**—Type Compound

Pressure of supply 110 volts. Full Load Current 164 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 Yes

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 E 22-3-30 Receivers E 22-3-30 Separate Tanks —  
(If not, state date of approval)

**SHAFTING GEAR**

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

Manufacturer.



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Dates of Survey while building } During progress of work in shops - Jan 21-25 Feb 3-7-8 April 3-6-14-17-20-25  
 } During erection on board vessel - - -  
 Total No. of visits

Dates of Examination of principal parts—Cylinders 3. 6 April Covers 3. 14 April Pistons 25 Jan 14 April Piston rods

Connecting rods 17 April Crank and Flywheel shafts 25 Jan 17 Feb - 3 April Intermediate shafts

Crank and Flywheel shafts, Material SMS Identification Marks 1712 Lloyd's H. K. K. K. P-2-39

Intermediate shafts, Material - Identification Marks

Identification marks on Air Receivers. 5742 Lloyd's Ltd 50 APN W. P. 15 APN H. P. B. 7. 2. 39 Shessam 3. 2. 39

Is this machinery duplicate of a previous case Yes If so, state name of vessel H. K. Oratella Amst. 15624

General Remarks (State quality of workmanship, opinions as to class, &c.)

The Motor has been made under special survey in accordance with approved plans, Secretary's letters and the Society's rules. Material duly tested Workmanship throughout good.

The Motor has been shipped to Rotterdam and will be fitted aboard Messrs Rotterdam Drydock Co 213.

The amount of Fee ... \$90.- : When applied for, 23-5-1939

Travelling Expenses (if any) \$4.50 : When received, 19. 1939

*J. J. J. J.*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI 10 NOV 1939

Assigned

See Rot. 7.E. 28626



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1m. 57. - Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute.)