

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 15660

MAY 24 1939

Received at London Office

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

Port of Amsterdam

No. in Survey held at Amsterdam

Date, First Survey 24 January Last Survey 25 April 1939

Reg. Book.

Number of Visits 11

Single
on the Twin
Triple
Quadruple

Screw vessel

"SAIDJA"

Tons { Gross
Net

Built at Rotterdam By whom built Rotterdam dyckerei Yard No. 213 When built 1939

Owners Ned. Indische Stoomboot Maatschappij Port belonging to S. Greenhage

Oil Engines made at Amsterdam By whom made N. P. Kromhout & Co. fab. Contract No. 9092 When made 1939

Generators made at Schiedamschen 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 8 Total Capacity of Generators 18 Kilowatts.

OIL ENGINES, &c.—Type of Engines Kromhout 2 K 53 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 285 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 solenoid Kind of fuel used Diesel oil

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

Flywheel Shaft, diameter as per Rule 6 as fitted Intermediate Shafts, diameter as per Rule 6 as fitted 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 l/min 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 l/min

Air Compressors, No. 1 No. of stages 1 Diameters 1 Stroke 1 Driven by 1

Scavenging Air Pumps, No. 1 Diameter 1 Stroke 1 Driven by 1

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. 1 Cubic capacity of each 1 Internal diameter 1 thickness 1

Seamless, lap welded or riveted longitudinal joint 1 Material 1 Range of tensile strength 1 Working pressure by Rules 1

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 S45 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 1 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 1

PLANS. Are approved plans forwarded herewith for Shafting E 22-3-30 Receivers E 22-3-30 Separate Tanks

PARE GEAR

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

Manufacturer.



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Foundation

005397-005402-0137

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 14 Feb - 3 April Intermediate shafts

Crank and Flywheel shafts, Material S M S 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 50 APR 4 W. P. 15 APR 4 H. P. B. 7. 2. 39 Sherram 3-2-39

Is this machinery duplicate of a previous case Yes If so, state name of vessel H. K. Orabella Amstrup 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, 19-11-1939

Committee's Minute

FRI 10 NOV 1939

Assigned

See Rot. J.E. 28626

Surveyor to Lloyd's Register of Shipping.



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