

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 22634

Received at London Office

JAN 26 1938

Date of writing Report 21.12.37 19... When handed in at Local Office 19... Port of **HAMBURG**
 No. in Survey held at Kiel Date, First Survey 25.3.37 Last Survey 8.1.37 19...
 Reg. Book. Number of Visits 19

on the Single Twin Triple Quadruple Screw vessel **"China"** Tons { Gross 10781 Net 6545

Built at Kiel By whom built F. Krupp GermaniaWerft A.G. Yard No. 569 When built 1938
 Owners Balboa Transport Corporation Port belonging to Panama P.R.

Oil Engines made at Kiel By whom made F. Krupp GermaniaWerft A.G. Contract No. 5980-83 When made 1938

Generators made at Nürnberg By whom made Siemens-Schuckertwerke A.G. Contract No. 1002222/2 When made 1937
 No. of Sets 2 Engine Brake Horse Power 205 Nom. Horse Power as per Rule 118 Total Capacity of Generators 270 Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy Oil, Maker's type 5 II 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 48 kg/cm² Diameter of cylinders 298 mm Length of stroke 440 mm No. of cylinders 3 No. of cranks 3
M.I.P. = 7 kg/cm² Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 330 mm Is there a bearing between each crank yes

Revolutions per minute 400 Flywheel dia. 1650 mm Weight 4650 kgs. Means of ignition Diesell syst. Kind of fuel used Sea oil
 Crank Shaft, dia. of journals as per Rule 167.5 mm - 5% = 159 mm Crank pin dia. 175 mm Crank Webs Mid. length breadth 270 mm Thickness parallel to axis solid
 as fitted 175 mm Mid. length thickness 85 mm Thickness around eyehole forged

Flywheel Shaft, diameter as per Rule 159 mm Intermediate Shafts, diameter as per Rule ✓ Thickness of cylinder liners 26.5 mm tapered to 23.5
 as fitted 195 mm as fitted ✓

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 manifolds water cooled

Cooling Water Pumps, No. 1, ϕ 105 mm, $5 = 86 mm$ Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes

Lubricating Oil Pumps, No. and size 1 cog wheel of 3.9 m³/h

Air Compressors, No. none No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓

Scavenging Air Pumps, No. none Diameter ✓ Stroke ✓ Driven by ✓

AIR RECEIVERS:—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. 1 Total cubic capacity 50 Litres Internal diameter 212 mm thickness 12 mm

Seamless, lap welded or riveted longitudinal joint seamless Material O.H. steel Range of tensile strength 66.6 kg/mm² Working pressure by Rules 160 kg/cm²

ELECTRIC GENERATORS:—Type Siemens-Schuckertwerke's V&V Form D.C.

Pressure of supply 115 volts. Full Load Current 1175 Amperes. Direct or Alternating Current D.C.

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 yes

PLANS. Are approved plans forwarded herewith for Shafting 11.1.37 Receivers 5, 7.7.37. Separate Tanks ✓
 (If not, state date of approval)

SPARE GEAR Supplied as required by Rules

Additional Spare Parts: 1 exhaust valve, 1 piston rings, 1 main bearing, 1 piston compl. and a considerable number of small further parts.

Handwritten signature/initials
Feb/38

The foregoing is a correct description,

**FRIED. KRUPP
GERMANIAWERFT**
Aktiengesellschaft

Manufacturer.



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Lloyd's Register
Foundation
004426.004431-0033

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1937:-
 Dates of Survey while building { During progress of work in shops - - Mar: 25 Apr: 16, 20 June: 14, 16, Sept: 2, 9, 13, 16, 20 Aug: 29, 23, 27 Sept: 6, 22
 { During erection on board vessel - - - Dec: 13, 20 1938 Jan: 3, 5
 Total No. of visits 19

Dates of Examination of principal parts—Cylinders 16-10-7-37 Covers 14-6-37 Pistons 14-6-37 Piston rods ✓

Connecting rods 18-6-37 Crank and Flywheel shaft 20-8-37 Intermediate shaft ✓

Crank and Flywheel shafts, Material O.H. Steel ✓ Identification Mark LLOYD'S M.B. 13269-13270 23-7-37 ✓

Intermediate shafts, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case. no If so, state name of vessel ✓

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

These auxiliary oil engine electric generating sets were constructed under special drawings in accordance with the approved plans and instructions thereto and in compliance with the Society's Rules. The materials used in the construction are of good quality and the workmanship is satisfactory. They are satisfactorily fitted on board and were tested under working conditions with satisfactory results. In my opinion they are eligible to be classed in the Society's Register Book with notation of +L.M.C.-138 as part of the vessel's machinery.

1m.2.38.—Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee £	:	:	When applied for,
			19
Travelling Expenses (if any) £	:	:	When received,
			19

J.A. Whitaker
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI 4 FEB 1938
 Assigned See other T. E. report

