

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 14054a

27 JAN 1953

Received at London Office

Writing Report 7th Jan. 1953. When handed in at Local Office 1953. Port of Copenhagen.  
Survey held at Copenhagen & Helsinki Date, First Survey 18th Dec. 1951 Last Survey 2nd Jan. 1953  
Number of Visits 31.

61 on the T. Pin Single Screw vessel. KIRSTEN SKOU. Tons Gross 2286. Net 4153.

By whom built Helbing & Luthardt & Pankratz Yard No. 308 When built 1953.  
By whom made 71 Birnbeck & Wain Contract No. 4923-25 When made 1952

By whom made Thomas B. Thirge Contract No. 3005879-80-81 When made 1952

Engine Brake Horse Power 240 M.N. as per Rule 48. Total Capacity of Generators 160 Kilowatts.

intended for essential services Yes

ENGINES, &c. Type of Engines Heavy oil, trunk piston, solid injection 2 or 4 stroke cycle 4 Single or double acting Single  
Diameter of cylinders 245 mm Length of stroke 400 mm No. of cylinders 4 No. of cranks 4

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 315 mm  
Firing order in cylinders 1-2-4-3

Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) 2300. Revolutions per minute 500.  
Weight 2030 kg.

Means of ignition compression Kind of fuel used Heavy oil.  
Mid. length breadth 292 mm Thickness parallel to axis 90 mm.  
Mid. length thickness 90 mm shrunk Thickness round eye-hole 82.5 mm.

General armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>)  
Intermediate Shafts, diameter as per Rule.

Means of lubrication forced Kind of damper if fitted.  
Are the exhaust pipes and silencers water cooled or lagged with non-conducting material. lagged

Is the sea suction provided with an efficient strainer which can be cleared within the vessel. Yes  
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Compressors, No. 1. No. of stages 1. Diameters 1. Stroke 1. Driven by 1.  
Enging Air Pumps, No. 1. Diameter 1. Stroke 1. Driven by 1.

RECEIVERS: Have they been made under Survey. Yes. State No. of Report or Certificate 1099

What means are provided for cleaning their inner surfaces. Yes

Pressure Air Receivers, No. 1. Cubic capacity of each 250 l. Internal diameter 380 mm. thickness 10 mm.

Working pressure by Rules 25 Atm.

CTRIC GENERATORS: Type Drip proof, anti-locked. 220 volts. Full Load Current 724 Amperes. Direct or Alternating Current DC.

Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

Generators, are they compounded as per Rule. Yes. is an adjustable regulating resistance fitted in series with each shunt field. Yes

Are they so spaced

Are the lubricating arrangements of the generators as per Rule. Yes

generators are under 100 kw. full load rating, have the makers supplied certificates of test. Yes and do the results comply with the requirements. Yes

generators are 100 kw. or over have they been built and tested under survey. Yes

Are approved plans forwarded herewith for Shafting. Yes. Receivers. Yes. Separate Tanks. Yes

Torsional Vibration characteristics if applicable been approved. Yes, 12/4-51. Armature shaft Drawing No. 210500.

RE GEAR supplied as per Rules.

The foregoing is a correct description,

AKTIESELSKABET

for BURMEISTER & WAIN'S MASKIN- OG JERNBYGGERI

Manufacturer.



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003147-003153-0239



Dates of Survey while building  
During progress of work in shops - -  
During erection on board vessel - -  
Total No. of visits

Dates of Examination of principal parts—Cylinders 18/12-51; 14-52. Covers 4/3-7/3-52. Pistons 4/3-7/3-52. Piston rods ✓  
Connecting rods 18/12-51; 14-52. Crank and Flywheel shafts 10/3-52. Intermediate shafts ✓  
Crank shaft Material 14. Steel. Tensile strength 29.6-30.9-28.9 t/p<sup>2</sup>  
Elongation 37.4 % on 2". Identification Marks L.N: 8753-54-55, K.H. 10.3.52  
Flywheel shaft, Material ✓ Identification Marks ✓  
Identification marks on Air Receivers N: 1099 - LLOYD'S TEST 60 ATM. - W.P. 30 ATM. - K.H. 21-1-52

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 above oil engine generating sets have been examined and installed on board under Special Licence in accordance with the Rules, the approved plans and the requirements contained in the Secretary's letter.

The material used has been examined and tested as required by the Rules and the workmanship is good.

On completion of the installation the machinery was tested under working condition and found in order.

The amount of Fee ... £ 1.140.-  
Air revision £ 40.80.-  
Travelling Expenses (if any) £ 40.-

When applied for 23/1 1953  
When received 19

Surgeon General

Surveyor to Lloyd's Register of Shipping.



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Committee's Minute

TUES. 10 FEB 1953

Assigned

Su F.E. Moly, rpt.