

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 113

Received at London Office

5 NOV 1949

Survey Report 28th Oct. 1949 When handed in at Local Office 19 Port of K I E L

Survey held at K I E L Date, First Survey Last Survey 19

Number of Visits 9829

on the Single Screw vessel "HAUKERJELL" Tons Gross 9837

Sunderland By whom built Sir J. Iaing & Sons, Ltd. Yard No. When built 1941

Port belonging to OSLO

made at Kiel By whom made Bohn & Kähler Contract No. - When made 1949

made at Siemens-Schuckert By whom made Siemens-Schuckert Contract No. - When made -

1 Engine Brake Horse Power 150 M.N. as per Rule Total Capacity of Generators 100 Kilowatts.

ded for essential services. yes

GINES, &c.—Type of Engines KR 18 2 or 4 stroke cycle 4 Single or double acting single

pressure in cylinders 4.8 kg/cm<sup>2</sup> Diameter of cylinders 190 mm Length of stroke 280 mm No. of cylinders 6 No. of cranks 6

ated 6.5 2 Firing order in cylinders 1.2.3. 6.5.4. Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 220 mm

ure kg/cm<sup>2</sup> bearing between each crank yes Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) 260 kg/cm<sup>2</sup> Revolutions per minute 500

ia 1000 mm Weight 420 kg Means of ignition spontaneous Kind of fuel used gas oil

ft, dia. of journals as per Rule 105 mm Crank pin dia. 105 mm Mid. length breadth 58 mm Thickness parallel to axis

as fitted 105 mm Crank Webs 140 mm shrunk Mid. length thickness Thickness round eyehole

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

provided to prevent racing of the engine when declutched Means of lubrication pressure Kind of damper if fitted -

inders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material yes

ater Pumps, No. one Is the sea suction provided with an efficient strainer which can be cleared within the vessel -

g Oil Pumps, No. and size 1 gear pump in the engine

essors, No. - No. of stages - Diameters - Stroke - Driven by -

g Air Pumps, No. - Diameter - Stroke - Driven by -

CEIVERS:—Have they been made under Survey - State No. of Report or Certificate -

iever, which can be isolated, fitted with a safety valve as per Rule -

ternal surfaces of the receivers be examined - What means are provided for cleaning their inner surfaces -

train arrangement fitted at the lowest part of each receiver -

ure Air Receivers, No. - Cubic capacity of each - Internal diameter - thickness -

up welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

ir Receivers, No. - Total cubic capacity - Internal diameter - thickness -

up welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

IC GENERATORS:—Type Siemens-Schuckert

upply 220 volts Full Load Current 430 Amperes Direct or Alternating Current direct

ng current system, state the periodicity direct current Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

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

inals accessible, clearly marked, and furnished with sockets yes Are they so spaced

that they cannot be accidentally earthed, short circuited, or touched yes Are the lubricating arrangements of the generators as per Rule yes

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

ators are 100 kw. or over have they been built and tested under survey not new

driven machinery other than generator none

Are approved plans forwarded herewith for Shafting 23/8/49 Secretary's letter

(If not, state date of approval) Receivers - Separate Tanks -

nal Vibration characteristics if applicable been approved herewith Armature shaft Drawing No. -

GEAR as per rule

The foregoing is a correct description,

ohn + Kähler : Manufacturer.



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Dates of Survey while building During progress of work in shops - - 2nd, 5th, and 17th August 1949  
During erection on board vessel - - - 26th August 1949  
Total No. of visits.....

Dates of Examination of principal parts—Cylinders 2/8/49 Covers 5/8/49 Pistons 5/8/49 Piston rods.....

Connecting rods 5/8/49 Crank and Flywheel shafts..... Intermediate shafts.....

Crank shaft { Material S.M. steel forged Tensile strength 65 kg/cm<sup>2</sup>  
Elongation 28% Identification Marks Lloyd's 6440 11/7/49 J.Q.

Flywheel shaft, Material..... Identification Marks.....

Identification marks on Air Receivers.....

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, &c.).....This engine has been built under survey

workmanship and material is good. It has been coupled to one reconditioned Siemens-Schuckert generator and under working conditions on the test bed and found satisfactory.

After two hours full load test runs, the governors were tested and the generator temperature rise checked found in order.

It is recommended that this unit is eligible for class as contemplated and has been stamped

LLOYD'S  
204  
5-8-49  
Ⓢ

2m.8.7.-T. (MADE AND PRINTED IN ENGLAND)  
(The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 60 : 0 : 0 { When applied for..... 19  
Travelling Expenses (if any) £ 1 : 0 : 0 { When received..... 19

Committee's Minute.....  
Assigned..... See minute on Rpt 5



Surveyor to Lloyd's Register of  
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