

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 794

MAR 1953

of writing Report 26th Feb. 1953 When handed in at Local Office 26th Feb. 1953 Port of KIEL Received at London Office

in Survey held at KIEL Date, First Survey 25th Oct. 1952 Last Survey 10th Jan. 1953

Book. 05 s on the Single Triple Quadruple Screw vessel M.V. "HOEGH CLIPPER" Number of Visits 21 Tons 9477

at Kiel By whom built Howaldtswerke A.G. Yard No. 960 When built 1953

ers Leif Hoegh Port belonging to Oslo

Engines made at Augäburg By whom made MAN Engine No. 430969/70/71 When made 1952

Generators made at Nürnberg By whom made Siemens Schückerwerke A.G. Generator No. 555823/24/25 When made 1952

of Sets. 3 B.H.P. of each Set 300 M.N. of each Set as per Rule -- Capacity of each Generator 200 Kilowatts

intended for essential services yes

**ENGINES, &c.**—Type of Engines Heavy Oil - Type G5V42 2 or 4 stroke cycle 4 Single or double acting S.A.

imum pressure in cylinders. Diameter of cylinders. Length of stroke. No. of cylinders. No. of cranks.

indicated pressure. Span of bearings (i.e., distance between inner edges of bearings in way of a crank).

ere a bearing between each crank. Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>). Revolutions per minute.

heel dia. Weight. Means of ignition. Kind of fuel used.

Manufact. Solid forged Semi-built All-built dia. of journals as per Rule. Crank pin dia. Crank Webs Mid. length breadth. Thickness parallel to axis.

heel Shaft, diameter as per Rule. Generator armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>)

means provided to prevent racing of the engine. Means of lubrication. Kind of damper if fitted.

he cylinders fitted with safety valves. Are the exhaust pipes and silencers water cooled or lagged with non-conducting material.

ing Water Pumps, No. and how driven. Is the sea suction provided with an efficient strainer which can be cleared within the vessel.

icating Oil Pumps, No. and size.

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

enging Air Pumps or Blowers, No. How driven.

**RECEIVERS:**—Have they been made under Survey (other than main engines) yes State No. of Report or Certificate ---

full details of safety devices.

the internal surfaces of the receivers be examined and cleaned.

ere a drain arrangement fitted at the lowest part of each receiver.

**Pressure Air Receivers, No.** Cubic capacity of each. Internal diameter. thickness.

less, lap welded or riveted longitudinal joint. Material. Range of tensile strength. Working pressure.

ing Air Receivers, No. Total cubic capacity. Internal diameter. thickness.

less, lap welded or riveted longitudinal joint. Material. Range of tensile strength. Working pressure.

**ELECTRIC GENERATORS:**—Type G 354/33-12 B 16

sure of supply 230 volts. Full Load Current 870 Amperes. Direct or Alternating Current D.C.

alternating current system, state the periodicity -- Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown and off yes Generators, are they compounded as per Rule yes is an adjustable regulating resistance fitted in series with each shunt field yes

all terminals accessible, clearly marked, and furnished with sockets yes Are they so spaced ---

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

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

he generators are 100 kw. or over have they been built and tested under survey built under Norske Veritas survey, but examined, partly re-insulated and tested according to Rule requirements and the Secretary's letters dated 3.10.52

ils of driven machinery other than generator --

**PLANS:**—Are approved plans forwarded herewith for Shafting 3.10.52 Receivers --- Separate Tanks ---

(If not, state date of approval)

he Torsional Vibration characteristics if applicable been approved no - attached Armature shaft Drawing No. ---

(State date of approval and name of previous duplicate case, if any)

the spare gear required by the Rules been supplied yes

The foregoing is a correct description,

Manufacturer.



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012646-012855-0159

Dates of Survey while building  
 During progress of work in shops - - 25, 31/10, 7, 8, 21/11/52  
 During erection on board vessel - - 24, 25, 26, 27/11, 3, 6, 10, 15, 19, 22, 29, 30, 31/12/52, 2, 8, 10/1/53  
 Total No. of visits 21

Dates of Examination of principal parts—Cylinders Covers Pistons Piston rods

Connecting rods Crank and Flywheel shafts No. 165 Intermediate shafts

Crank shaft Material AUGSBURG RPT. No. 165 Tensile strength  
 Elongation S E E Identification Marks

Flywheel shaft, Material Identification Marks

Identification marks on Air Receivers 1 aux. air receiver: Lloyd's Test No. 2212/60 ATM, WP 30 ATM, G.H. 23.8.52

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.) The generator sets consisting of the engines detailed in Augsburg Rpt. No. 165 and dynamos detailed in Kiel certificates Nos. 421, 422, 423, have been satisfactorily installed on board in accordance with the Rule requirements and tried under full load working conditions in parallel, and the switchgear and governors have been tested and found in good order. The machinery of this vessel is eligible, in my opinion, to have the notation of \* LMC 1,53 in the Register Book.

**Note:** The three generators, previously tested in error by "Norske Veritas" have been opened out at Howaldts werke Kiel and examined. The interpole windings have been re-insulated from the frame with micanite as required by paragraph M 223 of the Rules and in accordance with the Secretary's letter dated 3.10.52. The generators have been megger tested before and after the high potential tests and were examined under full and overload working conditions and found in good order.

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

Committee's Minute FRI. 20 MAR 1953  
 Assigned See P.E. Mch. rpt.

S. Chamber  
 Surveyor to Lloyd's Register of Shipping.



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