

## 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

Received at London Office

Port of KIEL

in Survey held at KIEL

Date, First Survey 25th Oct. 1952

Last Survey 10th Jan. 1953

05 s

Single

on the

Screw vessel

M.V. "HÖEGH CLIPPER"

Number of Visits 21

Gross 9477

Net

at Kiel

By whom built Howaldtswerke A.G.

Yard No. 960

When built 1953

Leif Hoegh

Port belonging to Oslo

Engines made at Augsburg

By whom made MAN

Engine No. 430969/70/71 When made 1952

Generators made at Nürnberg

By whom made Siemens Schuckertwerke 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, &amp;c.—Type of Engines Heavy Oil - Type G5V42

2 or 4 stroke cycle 4 Single or double acting S.A.

Maximum 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)

Are there a bearing between each crank

Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>)

" " " " balance wts. " " "

Revolutions per minute

Wheel dia.

Weight

Means of ignition

Kind of fuel used

Manufact.

Solid forged

Semi-built

All-built

as per Rule

as fitted

Crank pin dia

Crank Webs

Mid. length breadth

Thickness parallel to axis

Mid. length thickness

shrunk

Thickness round eye-hole

Wheel Shaft, diameter

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

Are the cylinders fitted with safety valves

Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

Lubricating Water Pumps, No. and how driven

Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size

Compressors, No.

No. of stages

Diameters

Stroke

Driven by

Suctioning Air Pumps or Blowers, No.

How driven

RECEIVERS:—Have they been made under Survey

(other than main engines)

State No. of Report or Certificate

Full details of safety devices

The internal surfaces of the receivers be examined and cleaned

Are there a drain arrangement fitted at the lowest part of each receiver

Pressure Air Receivers, No.

Cubic capacity of each

Internal diameter

thickness

Are they lap welded or riveted longitudinal joint

Material

Range of tensile strength

Working pressure

Suctioning Air Receivers, No.

Total cubic capacity

Internal diameter

thickness

Are they lap welded or riveted longitudinal joint

Material

Range of tensile strength

Working pressure

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

Voltage 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 there 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

Are they 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 built under Norske Veritas survey, but examined, partly re-insulated and tested according to Rule

List of driven machinery other than generator --

requirements and the Secretary's letters dated 3.10.52

ANS.—Are approved plans forwarded herewith for Shafting 3.10.52

(If not, state date of approval)

Receivers

Separate Tanks --

Are Torsional Vibration characteristics if applicable been approved no - attached

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

Armature shaft Drawing No. --

Are the spare gear required by the Rules been supplied yes

The foregoing is a correct description,

Manufacturer.



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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  
Elongation S E E Tensile strength  
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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