

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 2324

Received at London Office  
 Date of writing Report 31.3. 19 53 When handed in at Local Office 19 Port of H A M B U R G  
 No. in Survey held at H A M B U R G Date, First Survey 21st Jan. 53 Last Survey 12.3.53 19  
 Reg. Book. 4263 Number of Visits 11  
 on the ~~XXXX~~ Single Screw vessel M.V. "STANYAC NAIROBI" (ex "JAMES J. MAGUIRE") Tons Gross 11643  
~~XXXXXX~~ Net 6857.83  
 Built at Monfalcone By whom built Cant. Riuniti dell Adriatico Yard No. - When built 1939-5  
 Owners Oriental Trade & Transport Co. Ltd. Port belonging to L o n d o n  
 Oil Engines made at K i e l By whom made Bohn & Kähler Engine No. 14 971 When made 1952  
14 972  
 Generators made at B r e m e n By whom made Lloyd Dynamowerke Generator No. 19 262 When made unknown  
19 263  
 No. of Sets 2 B.H.P. of each Set 90 M.N. as per Rule - Capacity of each Generator 50 Kilowatts.  
 Is Set intended for essential services yes

OIL ENGINES, &c.—Type of Engines See Kiel Report No. 837 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders - Diameter of cylinders 190 mm Length of stroke 280 mm No. of cylinders 3 No. of cranks 3

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

Is there a bearing between each crank - Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) 600

Flywheel dia. - Weight - Means of ignition solid Kind of fuel used marine diesel

Crank Shaft, { Solid forged as per Rule  
 { Semi-built dia. of journals as fitted  
 { All-built as fitted  
 Crank pin dia. - Crank Webs - Mid. length breadth - Thickness parallel to axis -  
 Mid. length thickness - Thickness round eyehole -

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

Are means provided to prevent racing of the engine yes Means of lubrication forced Kind of damper if fitted none

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

Cooling Water Pumps, No. and how driven 2 attached Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes  
1 elec. driven

Lubricating Oil Pumps, No. and size 2 attached, see Kiel Report.

Air Compressors, No. 1 small No. of stages 2 Diameters 1x 30/80 mm Stroke 60 mm Driven by diesel direct

Scavenging Air Pumps or Blowers, No. - How driven -

AIR RECEIVERS:—Have they been made under Survey yes State No. of Report or Certificate Lloyds 12R0316

(other than main engines) State full details of safety devices fitted with relief valve T.P. 48.5 kg  
W.P. 30 kg/cm<sup>2</sup>  
H.D. 10.12.52

Can the internal surfaces of the receivers be examined and cleaned yes

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 -

Starting Air Receivers, No. 1 Total cubic capacity 60 ltrs. Internal diameter - thickness -

Seamless, lap welded or riveted longitudinal joint welded Material - Range of tensile strength - Working pressure 30 Atm.

ELECTRIC GENERATORS:—Type GV 53/50

Pressure of supply 115 volts. Full Load Current 435 Amperes. Direct or Alternating Current direct

If alternating current system, state the periodicity - Has the Automatic Governor been tested and found as per Rule when full 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 yes and do the results comply with the requirements yes

If the generators are 100 kw. or over have they been built and tested under survey -

Details of driven machinery other than generator -

PLANS.—Are approved plans forwarded herewith for Shafting no Receivers - Separate Tanks -

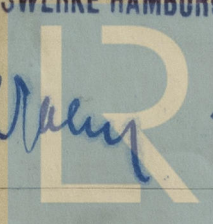
Have Torsional Vibration characteristics if applicable been approved - Armature shaft Drawing No. -

Has the spare gear required by the Rules been supplied yes

The foregoing is a correct description,

Manufacturer:

HOWALDTSWERKE HAMBURG A.-G.



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During progress of work in shops - - Jan. 21, 28, 31, Feb. 3, 12, 16, 18, 25, Mar. 3, 10, 12, 1953.  
Dates of Survey while building  
During erection on board vessel - -  
Total No. of visits

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

Connecting rods - Crank and Flywheel shafts - Intermediate shafts -

Material - Tensile strength -  
Elongation - Identification Marks -

Crank shaft -  
Flywheel shaft, Material - Identification Marks -

Identification marks on Air Receivers - Lloyds 12 R 0316 TP 48.5, WP 30 kg/cm<sup>2</sup> HD 10.12.52

Is this machinery duplicate of a previous case - yes If so, state name of vessel ordinary Bohn & Kähler type

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These generator sets have been constructed

under Special Survey; in accordance with the Society's Rules, the Secretary's letters and approved plans

(see Kiel Report No. 837), properly installed in the above vessel, full load, overload, full speed and

overspeed running and governor trials have been completed with good results.

3m.451.-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 ... £ See Rpt. 9

Travelling Expenses (if any) £ :

When applied for 19

When received 19

Committee's Minute

Assigned

W. D. Dahlmann

Surveyor to Lloyd's Register of Shipping.



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