

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 1875.

Received at London Office

Date of writing Report 8. 2. 1937 When handed in at Local Office 19 Port of Oswestry

No. in Survey held at Wysshing Date, First Survey Last Survey 19

Reg. Book. Single on the Twin Triple Quadruple Screw vessel, Hoegh Silverlight Tons Gross Net

Built at Hamburg By whom built Messrs. Deutsche Werft Yard No. 180 When built 1936

Owners Leif Hoegh, Oslo Port belonging to Oslo

Oil Engines made at Wysshing By whom made Messrs. M. A. M. Contract No. 491250/300/310 When made 1936

Generators made at By whom made Contract No. When made

No. of Sets 3 Engine Brake Horse Power 3x140 Nom. Horse Power as per Rule 39 Total Capacity of Generators Kilowatts.

OIL ENGINES, &c.—Type of Engines 3 x 9 4V33 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 49 kg/cm Diameter of cylinders 220 mm Length of stroke 330 mm No. of cylinders 4 No. of cranks 4

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 258 Is there a bearing between each crank yes

Revolutions per minute 460 Flywheel dia. 1500 mm Weight 1070 kg Means of ignition die ign. Kind of fuel used diesel-oil and hot lead.

Crank Shaft, dia. of journals as per Rule 130 mm as fitted 130 mm Crank pin dia. 130 mm Crank Webs Mid. length breadth 240 Thickness parallel to axis shrunk Mid. length thickness 62 Thickness around eye-hole —

Flywheel Shaft, diameter as per Rule — as fitted — Intermediate Shafts, diameter as per Rule — as fitted — Thickness of cylinder liners 14.5 mm

Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication forced.

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

Cooling Water Pumps, No. — Is the sea suction provided with an efficient strainer which can be cleared within the vessel —

Lubricating Oil Pumps, No. and size 1 each engine 1.23 m³/h = 920 rpm.

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

Scavenging Air Pumps, No. — Diameter — Stroke — Driven by —

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule yes

Can the internal surfaces of the receivers be examined yes What means are provided for cleaning their inner surfaces opening the bottle head.

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 by Rules —

Starting Air Receivers, No. 1 Total cubic capacity 125 L Internal diameter 296 thickness 10 mm

Seamless, lap welded or riveted longitudinal joint Seamless Material S. M. steel Range of tensile strength 45-57 kg. Working pressure by Rules 69.9.

ELECTRIC GENERATORS:—Type

Pressure of supply volts. Load Amperes. Direct or Alternating Current

If alternating current system, state frequency of periods per second

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off

Generators, do they comply with the requirements regarding rating are they compound wound

are they over compounded 5 per cent. if not compound wound state distance between each generator

is an adjustable regulating resistance fitted in series with each shunt field Are all terminals accessible, clearly marked, and furnished with sockets

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

PLANS. Are approved plans forwarded herewith for Shafting 3.6.36. Receivers 9.1.35. Separate Tanks —

(If not, state date of approval)

SPARE GEAR as per Rules.

The foregoing is a correct description.
 Maschinenfabrik Augsburg-Nürnberg A.-G.
 D. Adler v. A. D. W. me
 Manufacturer.



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 Foundation

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

Please note dates of the main engine

Dates of Examination of principal parts—Cylinders *30.6./29.8.36.* Covers *30.7./1.8.36.* Piston *13.8.36* Piston rods —
 Connecting rods *13.8.36.* Crank and Flywheel shaft *14.8/8.9.36.* Intermediate shaft —

Crank and Flywheel shafts, Material *S. M. Steel.*

Intermediate shafts, Material —

Identification Mark
 Identification Marks
 Length V.S. 2115 14.8.36 75648. 491290
 F.S. 2115 14.8.36. 75673 + 300
 W.P. 2115 8.9.36. 79227. 1 310.

Is this machinery duplicate of a previous case *yes.* If so, state name of vessel *Yard 727 "Harald Gryving" Bremer Vulkan of Copenhagen.*

General Remarks (State quality of workmanship, opinions as to class, &c.) *These 3 heavy oil engines (auxiliaries) have been constructed under special survey in accordance with the Rules and Regulations as well as with the approved plans and instructions thereto. The material used in the construction is good and the workmanship satisfactory.*

The aux. engines have been tested running under full load and 10% overload during several hours on the test bed of the makers in the presence of the Society's Surveyors and were found to work satisfactorily during these trials.

In an opinion the vessel for which these aux. engines are intended will be eligible for the notation + L.M.C. (with date) when the whole machinery has been fitted satisfactorily on board and tried under full working conditions.

1019, 28—Transfer. (The Surveyors are requested not to write on or below the space for Committee Minutes.)

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

sign. *V. Sdrowok,* *W. Petersen.*
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned
 FRI 3 SEP 1937

