

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 22008

22 AUG 1936

Date of writing Report 12-8-36 19 When handed in at Local Office 19 Port of Hamburg  
 No. in Survey held at Kiel Date, First Survey 3-1-36 Last Survey 3-8-36 19  
 Reg. Book. Number of Visits 11

on the Single  
Twin  
Triple  
Quadruple } Screw vessel  
 Built at Danzig By whom built F. Schichau G. m. b. H. Yard No. 1357 When built 1936  
 Owners Hish. Hiehlmann Port belonging to Tönseberg

Oil Engines made at Kiel By whom made Deutsche Werke Kiel A. G. Contract No. 3211-14 When made 1936  
 Generators made at Bremen By whom made Allg. Elektr. Gesellschaft Contract No. 5236 14 When made 1936  
 No. of Sets 1 Engine Brake Horse Power 235 Nom. Horse Power as per Rule 67 Total Capacity of Generator 155 Kilowatts.

OIL ENGINES, &c.—Type of Engines Deutsche Werke's type 4 M 421 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 46 kg/cm<sup>2</sup> Diameter of cylinders 280 mm Length of stroke 420 mm No. of cylinders 4 No. of cranks 4

M. I. P. = 6.5 kg/cm<sup>2</sup> Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 311 mm Is there a bearing between each crank yes

Revolutions per minute 360 mm Flywheel dia. 1200 mm Weight 1745 kg Means of ignition Diesel engt. Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule 158 mm - 5% Crank pin dia. 170 mm Mid. length breadth 250 mm Thickness parallel to axis solid  
 as fitted 170 mm Crank Webs Mid. length thickness 87.5 mm Thickness around eyehole

Flywheel Shaft, diameter as per Rule 158 mm - 5% Intermediate Shafts, diameter as per Rule 158 mm Thickness of cylinder liners 17.5 mm tapered to 12.5 mm  
 as fitted 180 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 yes

Cooling Water Pumps, No. none Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 1 rotary of 1285 Ctr for per hour

Air Compressors, No. none No. of stages Diameters Stroke Driven by

Scavenging Air Pumps, No. none Diameter Stroke Driven by

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

Can the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces

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

High Pressure Air Receivers, No. none 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. none Total cubic capacity Internal diameter thickness

Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS:—Type Allg. Elektr. Gesellschaft's type A 126 spec.

Pressure of supply 230 volts Load 674 Amperes Direct or Alternating Current D.C.

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 yes

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

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

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

PLANS. Are approved plans forwarded herewith for Shafting 26-10-35 Receivers 26-10-35 Separate Tanks

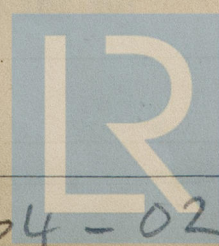
SPARE GEAR

Will be supplied as required by the Rules.

The foregoing is a correct description,

Deutsche Werke Kiel  
Aktiengesellschaft

Manufacturer.



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Foundation

W264-0286



1936.  
Dates of Survey while building { During progress of work in shops - - Jan: 3, 13 Febr: 4, 7, 19 Mar: 3 Apr: 2, 14, 17 July: 12 Aug: 3  
During erection on board vessel - - -  
Total No. of visits 11

Dates of Examination of principal parts—Cylinders 3.1.36. Covers 2.4.36 Pistons 2.4.36 Piston rods ✓

Connecting rods 2.4.36 Crank and Flywheel shaft 2.4.36 Intermediate shaft ✓

Crank and Flywheel shafts, Material O.H. Steel Identification Mark LLOYD'S

Intermediate shafts, Material ✓ Identification Marks ✓

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 auxiliary oil engine generating set has been built under special Survey in accordance with the Society's Rules, the approved plan and instructions thereto. Material and workmanship are of good quality. In my opinion this generating set is eligible to be placed in the Society's Register Book with notation of +LMC—with date as part of the machinery of the vessel for which intended when it has been satisfactorily fitted on board.

Im. 6.31—Transfer.  
(The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... See Ham. Report v. 22007 :  
Travelling Expenses (if any) :  
When applied for, 19...  
When received, 19...

TUE. 22 DEC 1936

Committee's Minute

Assigned

See Log J.E. 12

FRI 5 MAR 1937

FRI 7 MAY 1937

FRI 6 AUG 1937



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