

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 1884

Received at London Office 24 JUL 1952

Writing Report 18th June 1952 When handed in at Local Office 19 Port of HAMBURG

Survey held at Elmshorn Date, First Survey 11th February Last Survey 18th April 1952

Number of Visits 6

dra on the ~~Deck~~ ~~Deck~~ ~~Deck~~ Single Screw vessel Motor Tanker "ISEBEK" Tons Gross 498 Net 270

Elmshorn By whom built D.W. Kremer Sohn Yard No. 1001 When built 1952

Knöhr & Burchard NfL. Port belonging to Hamburg

Engines made at Munich By whom made Süddeutsche Bremsen A.G. Engine No. 20494 When made 1951

Generators made at Hamburg By whom made Hans Still Generator No. 512029 When made 1951

1 B.H.P. of each Set 49 M.N. as per Rule 10 Capacity of each Generator 30 Kilowatts.

Intended for essential services. **yes**

ENGINES, &c.—Type of Engines **RES 418 D** 2 or 4 stroke cycle **4** Single or double acting **single**

Working pressure in cylinders — Diameter of cylinders — Length of stroke — No. of cylinders **3** No. of cranks **3**

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

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

Revolutions per minute —

Weight of balance wts. —

Kind of fuel used —

Means of ignition —

Kind of fuel used —

Shaft, dia. of journals — Crank pin dia. — Crank Webs — Mid. length breadth — Thickness parallel to axis —

Mid. length thickness — Thickness round eye-hole —

Generator armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) —

Means provided to prevent racing of the engine. **yes** Means of lubrication **forced** Kind of damper if fitted —

Cylinders fitted with safety valves **no** Are the exhaust pipes and silencers water cooled or lagged with non-conducting material **yes**

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

Oil Pumps, No. and size **1 -**

Compressors, No. **1** No. of stages **2** Diameters **100 / 110** Stroke **60** Driven by **E. Motor**

Air Pumps or Blowers, No. — How driven —

RECEIVERS:—Have they been made under Survey **none** State No. of Report or Certificate —

Details of safety devices —

Internal surfaces of the receivers be examined and cleaned —

Drain arrangement fitted at the lowest part of each receiver —

Pressure Air Receivers, No. **none** Cubic capacity of each — Internal diameter — thickness —

Lap welded or riveted longitudinal joint — Material — Range of tensile strength — Working pressure —

Air Receivers, No. **none** Total cubic capacity — Internal diameter — thickness —

Lap welded or riveted longitudinal joint — Material — Range of tensile strength — Working pressure —

ELECTRIC GENERATORS:—Type **K ES 418 D M 20 DK / 37**

Supply of supply **115 volts.** Full Load Current — Amperes. Direct or Alternating Current **Direct**

Regulating current system, state the periodicity — Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

**yes** Generators, are they compounded as per Rule **yes** is an adjustable regulating resistance fitted in series with each shunt field **yes**

Terminals accessible, clearly marked, and furnished with sockets **yes** Are they so spaced

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

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**

Generators are 100 kw. or over have they been built and tested under survey —

Driven machinery other than generator **none**

Are approved plans forwarded herewith for Shafting — Receivers — Separate Tanks —

Additional Vibration characteristics if applicable been approved — Armature shaft Drawing No. —

Spare gear required by the Rules been supplied **yes**

The foregoing is a correct description,  
**D. W. Kremer Sohn**

*D. W. Kremer Sohn*

Manufacturer.



© 2021

Lloyd's Register  
Foundation

010037-010045-0067

During progress of work in shops - -  
 Dates of Survey while building } During erection on board vessel - - } Febr. 11, 26, Mar. 20, April 4, 17, 18 1952  
 Total No. of visits.....

Dates of Examination of principal parts—Cylinders..... Covers..... Pistons..... Piston rods.....  
 Connecting rods..... Crank and Flywheel shafts..... Intermediate shafts.....

Crank shaft } Material..... Tensile strength.....  
 } Elongation..... Identification Marks.....

Flywheel shaft, Material..... Identification Marks.....

Identification marks on Air Receivers.....

Is this machinery duplicate of a previous case..... If so, state name of vessel.....

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) See also Angsburg Report No. 88.

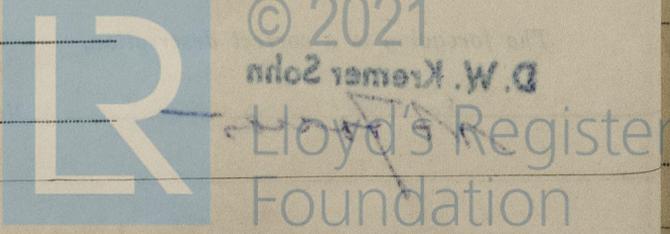
The generator set has now been properly installed, examined and tested under working conditions,  
 governor adjusted and all found in good condition, suitable for use in a vessel classed  
 with the Society.

The amount of Fee ... £ SEE RPT 46 :  
 Travelling Expenses (if any) £ : :  
 When applied for..... 19.....  
 When received..... 19.....

*A. F. Roberts*  
 Surveyor to Lloyd's Register of Shipping

FRI. 22 AUG 1952

Committee's Minute.....  
 Assigned *See F.E. Mch. rph.*



301,651-T. (MADE AND PRINTED IN ENGLAND)  
 (The Surveyors are requested not to write on or below the space for Committee Minute.)