

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 17819

Received at London Office

st. 4c.

Date of writing Report 14.9.1928 When handed in at Local Office 19 Port of Rotterdam
 Date, First Survey 16 Dec 1927 Last Survey 4 Sept 1928
 No. in Survey held at Rotterdam Number of Visits 25

on the ^{Single} ~~Triple~~ Screw vessel "KOTA GEDE" Tons { Gross 7227 Net 4514

built at Rotterdam By whom built My Fjernoord Yard No 309 When built 1928

owners Rotterdamse Lloyd Port belonging to Rotterdam

Oil Engines made at Rotterdam By whom made My Fjernoord Contract No. When made 1928

Generators made at Hekerveer By whom made Contract No. When made 1928

No. of Sets 2 Engine Brake Horse Power Nom. Horse Power as per Rule Total Capacity of Generators 400 Kilowatts.

TYPE OF ENGINES, &c. Type of Engines M.A.C. Diesel 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 35 kg Diameter of cylinders 425 mm Length of stroke 600 No. of cylinders 3 No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 500 mm Is there a bearing between each crank Yes

Revolutions per minute 250 Flywheel dia. 2500 mm Weight 10300 kg Means of ignition Compression Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as ^{appn} 269.9 mm Crankpin dia. 269.9 mm Mid. length breadth 380 mm Thickness parallel to axis 2
 as fitted 269.9 mm Mid. length thickness 145 mm Thickness around eye hole 2

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 30 mm genned.

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

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

Lubricating Oil Pumps, No. and size One (toothed wheel).

Air Compressors, No. One No. of stages Three Diameter 72 x (330-290) x (330-72) mm Stroke 250 mm Driven by engine.

Scavenging Air Pumps, No. 2 Diameter Stroke Driven by 2

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 Covers

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

High Pressure Air Receivers, No. 2 Cubic capacity of each 80 liters Internal diameter 405 mm thickness 17.5 mm

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

Starting Air Receivers, No. 2 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 Compound

Pressure of supply 220 volts. Load 900 Amperes. Direct or Alternating Current Direct

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 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 Receivers Separate Tanks

SPARE GEAR One cylinder cover complete with valves, springs etc. One set of fuel valves, One set of piston rings. One set of studs and nuts for one cylinder 2 crosshead bracers and one pin, 2 crankpin bearing bolts, 2 main bearing bolts a complete set of piston rings for air compressor, a set of valves for air compressor a fuel pump complete and further as per owners specification

The foregoing is a correct description,
 Maatschappij voor Scheeps- en Werktuigbouw

"FIJENOORD"

Manufacturer.

J. J. Boullier



Dates of Survey while building

During progress of work in shops - - During erection on board vessel - - - Total No. of visits	2/9 6/7 10/16 29/3 6/13 14/25 30/3 4/4 25/7 1/8 15/8 17/8 2/2 13/13 13/13 13/4 14/4 14/4 14/4 15/6 17/7 18/8 18/8
	22/10 28/18 4/19

Dates of Examination of principal parts—Cylinders $\frac{9}{2}$ $\frac{7}{5}$ $\frac{29}{13}$ $\frac{15}{4}$ $\frac{5}{5}$ Covers $\frac{17}{4}$ $\frac{5}{5}$ Pistons $\frac{6}{4}$ $\frac{25}{4}$ $\frac{23}{4}$ Piston rods ✓

Connecting rods $\frac{3}{4}$ $\frac{25}{4}$ $\frac{23}{4}$ Crank and Flywheel shaft *Made in* Intermediate shaft *Germany*

Crank and Flywheel shaft, Material *S. M. Steel* Identification Mark *LLOYD* Intermediate shafts, Material *-* Identification Marks *-*

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *"Koto Inter" (made at Augsburg)*

General Remarks (State quality of workmanship, opinions as to class, &c.) *This engine has been made under special survey in accordance with the approved plans Society's Rules and Secretary's letters material tested as required and workmanship good and was found in a good working condition when tried.*

Im. 7. 20.—Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)

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

A. F. Deane
Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE 16 OCT 1928
 Assigned _____

