

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 171

APR 4 1939

Received at London Office

Date of writing Report 3-4-1939 When handed in at Local Office

Port of WINTERTHUR.

No. in Survey held at WINTERTHUR.

Date, First Survey 17-8-38 Last Survey 20-3-1939

Number of Visits 22

No. in Reg. Book. 23390 on the ~~Four~~ Single Triple Quadruple Screw vessel

'Jona Aurora'

Tons { Gross 5011 Net 2977

Built at TRIESTE.

By whom built CANTIERI REUNITI DELL'ADRIATICO Yard No. 1228 When built 1939

Owners DE LA RAMA SS. Co.

Port belonging to

Oil Engines made at WINTERTHUR

By whom made

SULZER BROS

Contract No. 20295

When made 1939

Generators made at

By whom made

Contract No. 20301

When made

No. of Sets 3 Engine Brake Horse Power 120 x 3 Nom. Horse Power as per Rule 22 x 3 Total Capacity of Generators Kilowatts.

IL ENGINES, &c. Type of Engines SULZER SOLID INJECTION 2 or 4 stroke cycle 4 Single or double acting SINGLE

Maximum pressure in cylinders 780 Lb. in² Diameter of cylinders 220 mm. Length of stroke 320 mm. No. of cylinders 3 No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 225 mm. Is there a bearing between each crank YES

Revolutions per minute 500 Flywheel dia. Weight Means of ignition COMPRESSION Kind of fuel used HEAVY OIL.

Crank Shaft, dia. of journals as per Rule 119 mm. as fitted 155 mm. Crank pin dia. 135 mm. Crank Webs Mid. length breadth 220 mm. Thickness parallel to axis. Mid. length thickness 64 mm. Thickness around eye-hole

Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 20 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. 1 EACH ENGINE 3960 LT/HR 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 1530 LT/HR

Air Compressors, No. 2 No. of stages 2-COMPOUND Diameters 2 x 80 mm - 2 x 190 mm Stroke 120 mm Driven by BY CLUTCH AUX. ENGINES.

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

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. 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. 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

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 YES

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

LANS. Are approved plans forwarded herewith for Shafting 7-7-38 Receivers. Separate Tanks

(If not, state date of approval)

SHAFTING GEAR SEE LIST.

The foregoing is a correct description,

Sulzer Brothers
Limited

Manufacturer.



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Lloyd's Register
Foundation

L. C. NO. 171.

17-8-38 To 20-3-39

22 VISITS.

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

Dates of Examination of principal parts—Cylinders
Connecting rods
Crank and Flywheel shafts, Material
Intermediate shafts, Material

Covers 23-1-39
Pistons 20-3-39
Piston rods

15-9-38
10-10-38

Intermediate shaft
5498A, 5498B, 5498C.
Identification Mark LLOYDS N° 1165 B 15-9-38.

Identification Marks

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.) These auxiliary engines have been constructed under Special Survey in accordance with the requirements of the Rules, the Secretary's letters and the approved plans. Materials and workmanship are good. Full power trials in the shop were satisfactory. The engines have been despatched to Cantieri Reunite dell Adriatico to be installed in the vessel.

Im. 28 Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ...

£ 350.40

Travelling Expenses (if any) £

When applied for,

When received,

FRI. 24 NOV 1939

Committee's Minute

Assigned

J. Buchanan
Surveyor to Lloyd's Register of Shipping.



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