

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 26536

Received at London Office

27 MAR 1951

Date of writing Report

24-3-1951

When handed in at Local Office

24-3-1951

Port of

ANTWERP

No. in Survey held at

ANTWERP

Date, First Survey

26-10-50 Last Survey 14-12-1950

g. Book.

Number of Visits 16

Single  
on the Twin  
Triple  
Quadruple

Screw vessel

m/v "KAMINA" or "ROYAL HAROLD"

Tons

Gross 442.4

Net 227.4

uilt at

Hoboken

By whom built

Jhm. Cockenill

Yard No.

482 When built 1940

oners.

Belgian Navy

Port belonging to

Engines made at

Denain

By whom made

Jhm. Cockenill

Contract No.

6201 When made 1940

Generators made at

Charleroi

By whom made

Atch. de Const. Electrie

Contract No.

When made 1940

of Sets one

Engine Brake Horse Power 180

M.N. as per Rule

45

Total Capacity of Generators

120 Kilowatts.

Set intended for essential services.

IL ENGINES, &c.—Type of Engines

Reunier, Vain Type 322 V.H. 24

2 or 4 stroke cycle

2

Single or double acting triple

Maximum pressure in cylinders

49 kg/cm<sup>2</sup>

Diameter of cylinders

220

Length of stroke

270

No. of cylinders

3

No. of cranks

3

Mean indicated pressure

6.5 kg/cm<sup>2</sup>

Firing order in cylinders

1-2-3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge

277

Is there a bearing between each crank

Yes

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

1280

Revolutions per minute

400

Flywheel dia

1200

Weight

7550

Means of ignition

Compression

Kind of fuel used

Diesel oil

Crank Shaft, dia. of journals

as per Rule

150

Crank pin dia

75

Mid. length breadth

245

Thickness parallel to axis

85

as fitted

150

Crank Webs

Mid. length thickness

85

shrunk

Thickness round eye-hole

67.5

Flywheel Shaft, diameter

as per Rule

as fitted

Intermediate Shafts, diameter

as per Rule

as fitted

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

790

Are means provided to prevent racing of the engine when declutched

Yes

Means of lubrication

forced

Kind of damper if fitted

—

Are the cylinder's fitted with safety valves

Yes

Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

lagged

Boiling Water Pumps, No.

2 in main E.R. 15 m<sup>3</sup>/hr

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

Lubricating Oil Pumps, No. and size

one attached, suction 40 m<sup>3</sup>/hr

4.4 ton/hr

or Compressors, No.

none

No. of stages

1

Diameters

—

Stroke

—

Driven by

—

Exhausting Air Pumps, No.

one

Diameter

—

Stroke

—

Driven by

aux. motor

AIR RECEIVERS:—Have they been made under Survey

State No. of Report or Certificate

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

Are 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

6 P. - 8

A.C.E.C.

Pressure of supply

220 volts

Full Load Current

521

Amperes

Direct or Alternating Current

D.C.

Is an alternating current system, state the periodicity

—

Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

on and off

Yes

Generators, are they compounded as per Rule

Yes

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

Are the generators shielded that they cannot be accidentally earthed, short circuited, or touched

Yes

Are the lubricating arrangements of the generators as per Rule

Yes

Do the generators are under 100 kw. full load rating, have the makers supplied certificates of test

—

and do the results comply with the requirements

Do the generators are 100 kw. or over have they been built and tested under survey

Are details of driven machinery other than generator

PLANS.—Are approved plans forwarded herewith for Shafting

Yes

Receivers

Yes

Separate Tanks

—

Have Torsional Vibration characteristics if applicable been approved

—

Armature shaft Drawing No.

—

SHAFTING

as per Rule requirements

The foregoing is a correct description,

Manufacturer.



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014925-014934-0091



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.....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.) The above machinery has been completely opened out and examined, the principal scantlings have been checked and found to correspond with the figures noted above. The machinery has been tried under working conditions and found satisfactory.

The amount of Fee ... £ See Rpt. 13

Travelling Expenses (if any) £

When applied for 19

When received 19

Committee's Minute

FBI 19 OCT 1951

Assigned

See F.E. nashy rpt.

Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation