

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 16385.

4c.

Received at London Office

Gothenburg

of writing Report 6th Dec. 1948. When handed in at Local Office 17th Dec. 1948.

Port of

in Survey held at

Gothenburg

Date, First Survey

27th July

Last Survey 29th November 1948.

Number of Visits 20

on the

Single

Screw vessel

"ATLANTIC QUEEN"

Tons Gross 14567 Net 8631

at Gothenburg

By whom built

A-B. Götaverken

Yard No. 628

When built 1948

Rederi A-B. Monacus

Port belonging to

Kungshäcka

Engines made at

Gothenburg

By whom made

A-B. Götaverken

Engines

No. 2081-2082

When made 1948

Generators made at

Västerås

By whom made

A.S.E.A.

Generators

No. 245066-67

When made 1948

of Sets 2

Engine Brake Horse Power 2 x 300

M.N. as per Rule 150

Total Capacity of Generators

390 Kilowatts.

intended for essential services. Yes

ENGINES, &c.—Type of Engines

Heavy oil, trunk type

2 or 4 stroke cycle 4

Single or double acting Single

Maximum pressure in cylinders 45 kg/cm<sup>2</sup>

Diameter of cylinders 300 mm.

Length of stroke 450 mm.

No. of cylinders 5

No. of cranks 5

Indicated pressure

65 kg/cm<sup>2</sup>

Firing order in cylinders

1-3-5-4-2

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 378 mm.

Are there a bearing between each crank Yes

Moment of inertia of flywheel

Kg.cm.sec<sup>2</sup> 13830

Revolutions per minute 330

Wheel dia.

1500 mm.

Weight

3800 kgs.

Means of ignition

Compression

Kind of fuel used

Diesel oil

Crank Shaft, dia. of journals

as appd. 190 mm.

Crank pin dia. 190 mm.

Crank Webs

Mid. length breadth 260 mm.

Thickness parallel to axis

Mid. length thickness 105 mm.

Thickness round eyehole

Wheel Shaft, diameter

as per Rule

Intermediate Shafts, diameter

as per Rule

General armature, moment of inertia 1050

Means provided to prevent racing of the engine Yes

Means of lubrication

Forced

Kind of damper if fitted

None fitted

Are the cylinders fitted with safety valves Yes

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

1 salt water a 500 litres per minute, and 1 fresh water a 500 litres per minute, also connected to

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

1 a 5050 litres per hour

Compressors, No. None

No. of stages

Diameters

Stroke

Driven by

Enging Air Pumps, No. None

Diameter

Stroke

Driven by

RECEIVERS:—Have they been made under Survey None (2 main starting air-)

State No. of Report or Certificate

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

he internal surfaces of the receivers be examined

What means are provided for cleaning their inner surfaces

re a drain arrangement fitted at the lowest part of each receiver

Pressure Air Receivers, No.

Cubic capacity of each

Internal diameter

thickness

ess, lap welded or riveted longitudinal joint

Material

Range of tensile strength

Working pressure by Rules

ng Air Receivers, No.

Total cubic capacity

Internal diameter

thickness

ess, lap welded or riveted longitudinal joint

Material

Range of tensile strength

Working pressure by Rules

CTRIC GENERATORS:—Type Drip proof compound

ire of supply 220 volts.

Full Load Current 2 x 888

Amperes.

Direct or Alternating Current

Direct current

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

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

l terminals accessible, clearly marked, and furnished with sockets Yes

Are they so spaced

lded 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 and do the results comply with the requirements

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

of driven machinery other than generator Generators only

IS.—Are approved plans forwarded herewith for Shafting 23.10.1946

Receivers

Separate Tanks

orsional Vibration characteristics if applicable been approved Yes 16.11.1945 & 23.10.1946

Armature shaft Drawing No. 108257

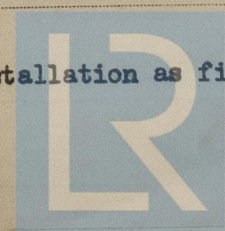
E GEAR As per Rule supplied

The foregoing is a correct description, and the particulars of the installation as fitted are as approved

rsional vibration characteristics.

AKTIEBOLAGET GOTAVERKEN

Manufacturer.



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Dates of Survey while building { During progress of work in shops - 27th July - 29th November, 1948.  
During erection on board vessel -  
Total No. of visits 20

Dates of Examination of principal parts - Cylinders 9-12.8 & 25.1D. Covers 9-12.8 & 25.1D. Pistons 19.8.1948 Piston rods  
1948  
Intermediate shafts  
Crank ~~shafts~~ shafts 28.7.1948

Connecting rods 19.8.1948

Crank shaft { Material S.M. Steel  
Elongation 36 - 34 %

Tensile strength

Identification Marks

Identification Marks

Flywheel shaft, Material

Identification marks on Air Receivers

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.)

These auxiliary engines have been built under special survey in accordance with the Rules and approved plans. The materials and workmanship are good and certificates in respect of crank shafts are attached.

The machinery has been securely fitted in the vessel under my supervision and to my satisfaction tested under full working power conditions and found in order.

2m.84 T. (MADE AND PRINTED IN ENGLAND)  
(The Surveyors are requested not to write on or below the space for Committee Minutes.)

The amount of Fee ... Kr. 450:00

Travelling Expenses (if any) £

When applied for 17/12 19 48.

When received 19

Committee's Minute

Assigned

FRI. 28 JAN 1949

for minute see J.E. Rpt

Surveyor to Lloyd's Register of Shipping



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