

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 12419

Received at London Office

JUN 10 1939

Date of writing Report

1st June 1939

When handed in at Local Office

9th June 1939

Port of GOTHENBURG

No. in Survey held at

GOTHENBURG

Date, First Survey 19th Jan

Last Survey 13th May

1939

Reg. Book.

opening in

Single  
on the ~~Four~~  
Triple  
Quadruple

Screw vessel YARD N° 54 (A.B. ÖRESUNDSVARVET)

Tons { Gross  
Net

Built at LANDSKRONA

By whom built A.B. ÖRESUNDSVARVET

Yard No. 54 When built 1939

Owners M. KRONOW & CO

Port belonging to OSLO

Oil Engines made at GOTHENBURG

By whom made A.B. GÖTAVERKEN

Contract No. 1340 When made 1939

Generators made at ODENSE

By whom made THOMAS B. THRISE

Contract No. 232/99 When made 1939

No. of Sets One

Engine Brake Horse Power 115

Nom. Horse Power as per Rule 26

Total Capacity of Generators 75 Kilowatts.

IL ENGINES, &c.—Type of Engines One direct oil engine

2 or 4 stroke cycle 4 Single or double acting S. A

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

Diameter of cylinders 240 mm

Length of stroke 360 mm

No. of cylinders 3

No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 301 mm

Is there a bearing between each crank Yes

Revolutions per minute 450

Flywheel dia. 1250

Weight 2245 kg

Means of ignition Compression Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule 140 mm

Crank pin dia. 150 mm

Crank Webs

Mid. length breadth 202 mm 211

Thickness parallel to axis

as fitted 150 mm

as fitted

as fitted

Mid. length thickness 80 mm

Thickness around eyehole

Flywheel Shaft, diameter as per Rule 140 mm

Intermediate Shafts, diameter as fitted

as fitted

Thickness of cylinder liners 20 mm 17 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.

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

Lubricating Oil Pumps, No. and size One - 3.14 tons/hour.

Air Compressors, No. One

No. of stages 2

Diameters 232 x 90 mm

Stroke 220 Driven by Dist. Oil Engine

Scavenging Air Pumps, No.

Diameter

Stroke

Driven by

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

What means are provided for cleaning their inner surfaces

Can the internal surfaces of the receivers be examined

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. Two

Total cubic capacity 2 x 2.5 = 5 m<sup>3</sup>

Internal diameter 1850 x 1800 mm

thickness 25.5 x 25 mm

Seamless, lap welded or riveted longitudinal joint Riveted

Material S. M. Steel

Range of tensile strength 43-46.6 kg/mm<sup>2</sup>

Working pressure by Rules 25.2 kg/cm<sup>2</sup>

ELECTRIC GENERATORS:—Type Dip. prof. Compound

Pressure of supply 110 volts. Full Load Current 682

Amperes.

Direct or Alternating Current Direct

If alternating current system, state the periodicity

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off No

Generators, are they compounded as per rule Yes

is an adjustable regulating resistance fitted in series with each

Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched

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 Yes

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

and do the results comply with the requirements Yes

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

PLANS. Are approved plans forwarded herewith for Shafting So. S. 38

(If not, state date of approval)

Receivers 27.5.38.

Separate Tanks 7.9.38

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The foregoing is a correct description.

AKTIEBOLAGET GÖTAVERKEN

W. J. M. J. M.

Manufacturer.



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Lloyd's Register

W 486-0146



Dates of Survey while building { During progress of work in shops - 1939 Jan. 19. Assembled 3.9.27.28 April 14.20.21.25 May 9.13.  
During erection on board vessel - - -  
Total No. of visits 11

Dates of Examination of principal parts—Cylinders 19/39 Covers 19/39 Pistons 19/39 Piston rods —

Connecting rods 19/39 Crank and Flywheel shafts 28.3.39 Intermediate shafts ✓

Crank and Flywheel shafts, Material S.M. steel Identification Marks M/S C.V. 54  
LLOYD'S  
PK 10 264 SVL  
3.2.39.

Intermediate shafts, Material ✓ Identification Marks —

Identification marks on Air Receivers M: 445/6  
LLOYD'S TEST 40K4.  
W.P. 25 114.  
\$ 24.4.39.

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *Britannia. Extension yard No 533*

General Remarks (State quality of workmanship, opinions as to class, &c.) *This auxiliary engine has been built under Special Survey. The crank shaft as per forging report attached. The workmanship is good and all the requirements of the Rules have been complied with. This vessel is at present under construction at Ladbroke where the auxiliary engine will be installed. The Helmingbury Surveyor should be furnished with a copy of this report.*

Im 11.37.—Transfer. (MADE IN ENGLAND.)  
(The Surveyors are requested not to write on or below the space for Committee Minute.)

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

Committee's Minute

Assigned

FRI 3 NOV 1939

See Memo. J.C. 1826

*Steu. J. J. J. J. J.*  
Surveyor to Lloyd's Register of Shipping.



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