

Report on Oil Engine Electric Generator Sets.

No. 14111

Received at London Office

Date of writing Report 31st Dec. 1944 When handed in at Local Office 8th Jan., 45. Port of Gothenburg.
 No. in Survey held at Gothenburg. Date, First Survey 11th October. Last Survey 9th Dec. 1944.
 Reg. Book. Number of Visits 14

92569 on the Single Screw vessel "WILHELMINA" Tons ^{Gross} 2076
~~Gothenburg~~ ^{Net} 1040

Built at Gothenburg By whom built Eriksbergs Mek. Verkat. AB. Yard No. 327 When built 1944

Owners Rederi A-B. Fredrika Port belonging to Stockholm

Oil Engines made at Gothenburg By whom made Eriksbergs Mek. Verkat. A-B. Eriks Nos. 355-6-7 When made 1944

Generators made at Västerås By whom made A.S.E.A. Generators 1700263 No. 64 and 65 When made 1944

No. of Sets 3 Engine Brake Horse Power 3x159 Nom. Horse Power as per Rule 3x395 Total Capacity of Generators 315 Kilowatts.

OIL ENGINES &c.— Type of Engines B&W trunk piston, solid injection 2 or 4 stroke cycle 2 Single or double acting Single

Maximum pressure in cylinders 49 Diameter of cylinders 220 mm. Length of stroke 370 mm. No. of cylinders 3 No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 280 mm. Is there a bearing between each crank Yes

Revolutions per minute 350 Flywheel dia. 1200 mm. Weight 1550 kgs. Means of ignition Compression Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule 150 mm. Crank pin dia. 150 mm. Crank Webs Mid. length breadth 250 mm. Thickness parallel to axis 85 mm.
as fitted 150 mm. Mid. length thickness 85 mm. Thickness around eyehole 67.5 mm.

Flywheel xxxxxx fitted on Intermediate Shaft, diameter as per Rule Thickness of cylinder liners 18 mm.
xxxxxx crankshaft as fitted

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 Lagged

Cooling Water Pumps, No. One sep. 18 tons/hour for all aux. eng. (also conn. to main cooling pump). Is there a strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size One direct driven pump on each set, 5 tons/hour each.

Air Compressors, No. of 2 sets No. of stages 2 Diameters 250 & 280 mm. Stroke 190 mm Driven by Direct by eng.

Scavenging Air Blowers No. One on each engine Rotary type Yes Driven by Direct by eng.

AIR RECEIVERS:— Have they been made under Survey Yes State No. of Report or Certificate 1021

Is each receiver, which can be isolated, fitted with a safety valve as per Rule Fusible plug and safety valves on compressors

Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Caustic soda and water

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

High Pressure Air Receivers, No. None 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. One Total cubic capacity 180 litres Internal diameter 370 mm. thickness 14 mm.

Seamless, lap welded or riveted longitudinal joint El. welded Material S.M. Steel Range of tensile strength 41-47 kg/mm² Working pressure by Rules 53.8 kg/cm²

ELECTRIC GENERATORS:— Type Drip proof compound

Pressure of supply 220 volts. Full Load Current 3 x 477 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 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 or shielded that they cannot be accidentally earthed, short circuited, or touched Yes 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 ---

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

PLANS. Are approved plans forwarded herewith for Shafting Got. 12.5.1942 Receivers Got. 12.5.1942 Separate Tanks ---

(If not, state date of approval)

SPARE GEAR As per Rule supplied.

The foregoing is a correct description

ERIKSBERGS MEK. VERKSTADS A-B.

GÖTEBORG

Manufacturer.



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Dates of Survey while building { During progress of work in shops - } 11th October - 2nd December 1944.
{ During erection on board vessel - } 8th November - 9th December 1944.
Total No. of visits 14

Dates of Examination of principal parts—Cylinders 17&18.10 Covers 17 & 18.10 Pistons 23.10.1944 Piston rods ---
Connecting rods 23.10.1944 Crank and Flywheel shafts 16.10.1944 Intermediate shafts ---
Crank and Flywheel shafts, Material S.M. Steel Identification Marks Lloyds Nos.1321/2 SJ 14.12.42
Intermediate shafts, Material --- Identification Marks Lloyds No. 2366 BG 8.10.43
Identification marks on Air Receivers No. 1021 Lloyd's test 80 kg. WP 40 kg. FC 5.3.42
Is this machinery duplicate of a previous case Yes If so, state name of vessel m.s. "Fylgia". Got.rpt.No. 13796.

General Remarks (State quality of workmanship, opinions as to class, &c.
These auxiliary engines have been built under special survey and fitted on board under my inspection and to my satisfaction and have been tested and found to work satisfactorily.
The workmanship is good and the Rule requirements have been complied with.
Shafting and air receivers as per certificates attached.

(The Surveyor are requested not to write on or below the space for Committee Minute.)

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

L. Branden
Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned