

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 13186

19 JUL 1941

Received at London Office
 of writing Report 15th May 1941 When handed in at Local Office 21st May 1941 Port of **GOTHENBURG**
 in Survey held at **GOTHENBURG** Date, First Survey 15th Aug. 1940 Last Survey 26th April 1941
 Book. Number of Visits 3
 on the Single }
 Twin } Screw vessel **"G.L.A.N."**
 Triple }
 Quadruple }
 at **STOCKHOLM** By whom built **ETENSBERGS VARV** Yard No. **177** When built **1941**
 ers **FREDERIKTIEB. TRANSOCEAN** Port belonging to **GOTHENBURG**
 Engines made at **JÖNKÖPING** By whom made **AB JÖNKÖPINGS MOTOFABRIK** Contract No. **5785-56** When made **1941**
 erators made at By whom made Contract No. When made
 of Sets **1** Engine Brake Horse Power **50** Nom. Horse Power as per Rule **16** Total Capacity of Generators Kilowatts.

ENGINES, &c.—Type of Engines **Vertical trunk, type 252D**. 2 or 4 stroke cycle **2** Single or double acting **single**
 imum pressure in cylinders **MEP 3.21** Diameter of cylinders **170^{mm}** Length of stroke **220^{mm}** No. of cylinders **2** No. of cranks **2**
 of bearings, adjacent to the Crank, measured from inner edge to inner edge **490^{mm}** Is there a bearing between each crank **No**
 lutions per minute **700** Flywheel dia. **750^{mm}** Weight **450 kg.** Means of ignition **Compression** Kind of fuel used **Heavy oil**
 ank Shaft, dia. of journals as per Rule as fitted **110^{mm}** Crank pin dia. **130^{mm}** Crank Webs Mid. length breadth **150^{mm}** Thickness parallel to axis **shrunk**
 as per Rule as fitted **110^{mm}** Mid. length thickness **60^{mm}** Thickness around eyehole **shrunk**
 wheel Shaft, diameter as per Rule as fitted **110^{mm}** Intermediate Shafts, diameter as per Rule as fitted **110^{mm}** Thickness of cylinder liners **shrunk**
 governor or other arrangement fitted to prevent racing of the engine when declutched **Yes** Means of lubrication **Automatic lubricator.**
 the cylinders fitted with safety valves **Yes** Are the exhaust pipes and silencers water cooled or lagged with non-conducting material **Lagged.**
 ling Water Pumps, No. **one D=50^{mm} S=15^{mm}** Is the sea suction provided with an efficient strainer which can be cleared within the vessel
 ricating Oil Pumps, No. and size **✓**

Compressors, No. **✓** No. of stages **✓** Diameters **✓** Stroke **✓** Driven by **✓**
 venging Air Pumps, No. **one each cylinder at bottom.** Diameter **225^{mm}** Stroke **220^{mm}** Driven by **attached to each piston.**

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

each receiver, which can be isolated, fitted with a safety valve as per Rule
 the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces
 ere a drain arrangement fitted at the lowest part of each receiver

h Pressure Air Receivers, No. **✓** Cubic capacity of each **✓** Internal diameter **✓** thickness **✓**
 nless, lap welded or riveted longitudinal joint **✓** Material **✓** Range of tensile strength **✓** Working pressure by Rules **✓**
 rting Air Receivers, No. Total cubic capacity Internal diameter thickness
 nless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS:—Type

essure of supply volts. Full Load Current Amperes. Direct or Alternating Current
 lternating current system, state the periodicity Has the **Automatic Governor** been tested and found efficient when the whole load is suddenly thrown on and off
 erators, are they compounded as per rule is an adjustable regulating resistance fitted in series with each
 at field Are all terminals accessible, clearly marked, and furnished with sockets
 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
 he generators are under 100 kw. full load rating, have the Makers supplied certificates of test and do the results comply with the requirements
 he generators are 100 kw. or over have they been built and tested under survey

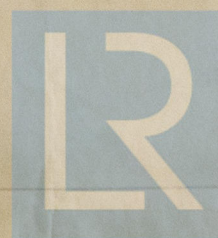
UNTS. Are approved plans forwarded herewith for Shafting **See letter E 19/6/40** Receivers Separate Tanks
 (If not, state date of approval)

RE GEAR as per Rule, to be checked on board.

The foregoing is a correct description.

Inspector

Manufacturer.



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W170-0174

Dates of Survey while building { During progress of work in shops - - } 15/8/40, 25/4/41, 26/4/41
 { During erection on board vessel - - - }
 Total No. of visits 3

Dates of Examination of principal parts—Cylinders 26/4/41 Covers 26/4/41 Pistons 26/4/41 Piston rods

Connecting rods 15/8/40, 26/4/41 Crank and Flywheel shafts 15/8/40, 26/4/41 Intermediate shafts

Crank and Flywheel shafts, Material S.M. Steel Identification Marks LLOYDS No 735 S.J. 15.8.40

Intermediate shafts, Material Identification Marks

Identification marks on Air Receivers Identification Marks on cylinders: LLOYDS CYLINDER COOL. JACKET S.J. 26.4.41

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.)

This auxiliary engine has been built under special survey in accordance with the approved plans.

The crank shaft as per forging report attached.

The workmanship is good and the material fulfils the requirements of the Rules.

Due to shortage of oil no full power bench test has been carried out.

This engine for driving cargo pump.
 See Skm. Ch. 7/1/41

1m.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 ... £ 90:00 When applied for, 15/5 19 41
 Travelling Expenses (if any) £ 35:00 When received, 19

Committee's Minute

Assigned

TUE. 2 DEC 1941

See Skm. J.E. 5332

G. Mander
 Surveyor to Lloyd's Register of Shipping.



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