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REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 18526

Received at London Office

19 OCT 1951

Date of writing Report 2nd Oct. 1951 When handed in at Local Office 2nd Oct. 1951 Port of GOTHENBURG.

No. in Survey held at Gothenburg Date, First Survey 15.6.51 Last Survey 5.10 19 51.
Reg. Book. Number of Visits 14.

40179 on the ~~Triple~~ ~~Quadruple~~ Single Screw vessel "MARGIT GORTHON" Tons Gross 10170 Net -

Built at Landskrona By whom built Öresundsvarvet AB Yard No. 118 When built 1951

Owners Rederi AB Gylfe Port belonging to Hälsingborg

Oil Engines made at Gothenburg By whom made AB Götaverken Engine No. 2246/47/1 When made 1951

Generators made at Västerås By whom made ASEA. Gen. No. 2721383/1 When made 1951

No. of Sets 2 Engine Brake Horse Power 2 x 300 M.N. as per Rule 150 Total Capacity of Generators 400 Kilowatts.

Is Set intended for essential services Yes

OIL 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/cm² Diameter of cylinders 300 mm. Length of stroke 450mm. No. of cylinders 5 No. of cranks 5

Mean indicated pressure 6.5 kg/cm² 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.

Is there a bearing between each crank Yes Moment of inertia of flywheel 13750 kg. cm. sec² Revolutions per minute 350

Flywheel dia. 1500 mm. Weight 3800 kgs. Means of ignition Compr. Kind of fuel used Diesel oil

Crank Shaft, dia. of journals Appd. 190 mm. Crank pin dia. 190 mm. Crank Webs Mid. length breadth 260 mm. Thickness parallel to axis -

Flywheel Shaft, diameter as per Rule - Intermediate Shafts, diameter as per Rule - General armature, moment of inertia 1040 kg. cm. sec²

Are 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

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 1 x 5050 lit./hour

Air Compressors, No. No. of stages Diameters Stroke Driven by

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

Can 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 Drip proof compounded

Pressure of supply 220 volts. Full Load Current 2 x 909 Amperes. Direct or Alternating Current Direct Current

If 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

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

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

Details of driven machinery other than generator Generators only

PLANS.—Are approved plans forwarded herewith for Shafting 14th Sept. 1949 Receivers - Separate Tanks -

Have Torsional Vibration characteristics if applicable been approved 14th Sept. 1949 Armature shaft Drawing No. 108257

SPARE GEAR To be checked on board

The foregoing is a correct description, and the particulars of the installation as fitted are as approved for torsional vibration characteristics.

ARTERLAGET GÖTAYERKEN

Manufacturer.

Lloyd's Register Foundation

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Dates of Survey while building { During progress of work in shops - - 15.6.51 -
During erection on board vessel - - -
Total No. of visits 14
Dates of Examination of principal parts—Cylinders 15,20,26,29/6 & 22/7-51 Covers 15,20,26,29/6 & 22/7-51 Pistons 27/7-51 Piston rods -
Connecting rods 27/7-51 Crank and Flywheel shafts 20.7.51 Intermediate shafts -
Crank shaft { Material SM-Steel Tensile strength 45.5 - 51.3 mm²
Elongation 38.0 - 33.0 % on 50 mm. Identification Marks LLOYD'S NO.1118 LLOYD'S NO.1
Flywheel shaft, Material Identification Marks BR 27.10.49. BR 27.10.49.
Identification marks on Air Receivers -

Is this machinery duplicate of a previous case. Yes If so, state name of vessel M/S "PORJUS" Gothenburg First Entry report No. 17890.

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 workmanship and materials are good and test sheets in request of crank shafts are attached.

The engines have been tested under working conditions in the shop and found in order.

The amount of Fee ... Kr. 525:00 : When applied for 15.10 1951.
Travelling Expenses (if any) £ : -- : When received 19

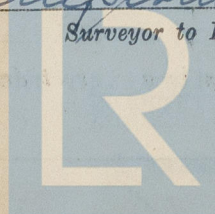
FRI. 4 JAN 1952.

Committee's Minute

Assigned

See F.E. moly up

Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation