

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 8519

Received at London Office

2 FEB 1952

Writing Report 30/1951 When handed in at Local Office 19 Port of Stockholm

Survey held at Norrtälje, Grisslehamn & Lidingö Date, First Survey 17.5. Last Survey 9.10. 1951. Number of Visits 5

on the ^{Single} ~~Triple~~ ~~Quadruple~~ Screw vessel m/s "BLENDA" (former Swedish War Vessel) Tons Gross 483 Net 302

Gothenburg By whom built AB Lindholmens Varv Yard No. - When built 1875

Partrederi B. Bernstrand - T. Jansson Port belonging to Stockholm

Engines made at Norrtälje By whom made Motoraktiebolaget Pythagoras Contract No. - When made 1951

Engines made at Västerås By whom made ASEA Contract No. - When made 1927 & 1930

Engines 1 Engine Brake Horse Power 13 M.N. as per Rule 3.25 Total Capacity of Generators 5 Kilowatts.

Intended for essential services Yes

ENGINES, &c.—Type of Engines Semi Diesel 2 or 4 stroke cycle 2 Single or double acting Single

Working pressure in cylinders 22 kg/cm² Diameter of cylinders 140 mm. Length of stroke 150 mm. No. of cylinders 1 No. of cranks 1

Indicated pressure 3.75 kg/cm² Firing order in cylinders - Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 210 mm.

Distance between each crank - Moment of inertia of flywheel (16 m² or Kg.-cm.²) - Revolutions per minute 800 r.p.m.

Crank pin dia. 500 mm. Weight 95 kg. Means of ignition Compression Kind of fuel used Diesel oil

Shaft, dia. of journals as per Rule 55 mm. Crank pin dia. 60 mm. Crank Webs Mid. length breadth 90 mm. Thickness parallel to axis -

Intermediate Shafts, diameter as per Rule 55 mm. as fitted 55 mm. General armature, moment of inertia (16 m² or Kg.-cm.²) -

Means provided to prevent racing of the engine when declutched Yes Means of lubrication Pressure Kind of damper if fitted -

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

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

Lubricating Oil Pumps, No. and size 1 D = 7 mm. Stroke = variable.

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

Enging Air Pumps, No. - Diameter - Stroke - Driven by -

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

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

Are the internal surfaces of the receivers be examined - What means are provided for cleaning their inner surfaces -

Are there a drain arrangement fitted at the lowest part of each receiver -

Pressure Air Receivers, No. - Cubic capacity of each - Internal diameter - thickness -

less, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

Enging Air Receivers, No. - Total cubic capacity - Internal diameter - thickness -

less, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

ELECTRIC GENERATORS:—Type D.C. compound wound.

Voltage of supply 110 volts. Full Load Current 43.5 Amperes. Direct or Alternating Current Direct

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

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

Are the lubricating arrangements of the generators as per Rule Yes

Are the generators under 100 kw. full load rating, have the makers supplied certificates of test Yes and do the results comply with the requirements Yes

Are the generators 100 kw. or over have they been built and tested under survey -

Are the generators of driven machinery other than generator Fwd end ballast pump. Aft end auxiliary starting air compr. Generator trans-

mission driven.

Are approved plans forwarded herewith for Shafting 26.5.49 & 18.8.49 Receivers - Separate Tanks -

Are the Torsional Vibration characteristics if applicable been approved - Armature shaft Drawing No. -

Are GEAR As per Rules.

The foregoing is a correct description,

A. B. PYTHAGORAS

Manufacturer.



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Dates of Survey while building { During progress of work in shops - - 17.5.51 and 4.10.51
During erection on board vessel - - - 4 - 9/10 1951
Total No. of visits 5

Dates of Examination of principal parts—Cylinders 17.5.51 Covers 17.5.51 Pistons 17.5.51 Piston rods -
Connecting rods 17.5.51 Coupling Crank and Flywheel shafts 17.5.51 Intermediate shafts 17.5.51

Crank shaft { Material S.M. Steel Tensile strength 63.1 kg/mm²
Elongation 28.0% Identification Marks Lloyd's No. 2307 TB 17.5.51

Coupling Flywheel shaft, Material S.M. Steel Identification Marks Lloyd's No. 1317 T.B. 17.5.51

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.)

Note. A similar engine (driving a 10 kW generator), which has not been built under Special Survey has been installed onboard under my supervision as a "harbour set". The generators are not arranged to run in parallel.

This auxiliary engine set has been built and installed onboard under my supervision. The material workmanship are good.

Test certificates on shafting are attached hereto.

The amount of Fee ... £Kr. 90:-- :

When applied for 30/ 1952

Travelling Expenses (if any) £Kr. 26:40 :

When received 19

TUES. 26 FEB 1952

Committee's Minute

Assigned

Thos. P. P. P.

Surveyor to Lloyd's Register of Shipping.



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