

Report on Oil Engine Electric Generator Sets.

No. 5629

Received at London Office

Date of writing Report 13.4. 1943. When handed in at Local Office Port of Backham.

No. in Survey held at Es. Kilsduna Date, First Survey and Last Survey 2.4. 1943.

Reg. Book. Number of Visits One

..... on the *Single* ~~Twin~~ *Triple* Screw vessel..... Tons { Gross *650*
Quadruple Net.....
A *129 & 184*

Built at *Stockholm* By whom built *1/2 Ekensborgs Varv* Yards Nos. *1* When built *1780*
Owners *Peder A. Wessindia* Port belonging to *Stockholm*

Oil Engines made at Esikilturna By whom made B. Bolinder-Hunkelt Contract No. 34245-46 and 34242-48 When made 1943

Generators made at Hälsingborg By whom made Ekström & Ekström Contract No. 88958 When made 1948

No. of Sets.....2..... Engine Brake Horse Power.....2x60..... Nom. Horse Power as per Rule.....2x18..... Total Capacity of Generators.....2x30 Kilowatts.

OIL ENGINES &c.— Type of Engines *Rotinder Diesel, Type W25332* 2 or 4 stroke cycle *2* Single or double acting *single*

Maximum pressure in cylinders 91 $\frac{1}{2}$ lbs Diameter of cylinders 180 $\frac{1}{16}$ in Length of stroke 180 $\frac{1}{16}$ in No. of cylinders 2 No. of cranks 2

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 450 mm. Is there a bearing between each crank No

Revolutions per minute.....800..... Flywheel dia.....200^{mm}..... Weight.....185 kgs..... Means of ignition.....Hot bulb..... Kind of fuel used.....

Crank Shaft, dia. of journals	as per Rule	Crank pin dia.	Crank Webs	Mid. length breadth	140 mm	Thickness parallel to axis
	as fitted	80 mm		95 mm		Mid. length thickness	40 mm	Thickness around eyehole

Flywheel Shaft, diameter as per Rule as fitted **Intermediate Shaft, diameter** as per Rule as fitted **Thickness of cylinder liners**.....

The flywheel is fitted in the crankshaft
Is a governor or other arrangement fitted to prevent racing of the engine when declutched..... *Yes*..... Means of lubrication..... *pumps*.....

Are the cylinders fitted with safety valves.....*No*..... Are the ~~exhaust pipes and~~ silencers water cooled or lagged with non-conducting material.....*Yes*.....

Cooling Water Pumps, No. 2 x 1 Is the sea suction provided with an efficient strainer which can be cleared within the vessel.....

Lubricating Oil Pumps, No. and size *One adjustable automatic lubricator for each engine*

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 *Yes*

Can the internal surfaces of the receivers be examined..... *Yes* What means are provided for cleaning their inner surfaces..... *Hand tools*

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

High Pressure Air Receivers, No. *None Fitted* 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. 2x2..... Total cubic capacity 2x60..... Internal diameter 220 ^{mm} _{in}..... thickness 5 ^{mm} _{in}.....

Seamless, ~~lap~~ welded or riveted longitudinal joint electrically Material St. Steel Range of tensile strength 50.5-52.2 Working pressure by Rules 15 1/2

ELECTRIC GENERATORS:— Type DW-14

Pressure of supply 115 volts. Full Load Current 30 KW ~~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.....

Generators. are they compounded as per rule 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.....

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

PLANS Are approved plans forwarded herewith for Shafting..... 3.3.1938 Receivers..... 16.6.1939 Separate Tanks.....

(If not, state date of approval)

The foregoing is a correct description,

Manufacturer.

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Dates of Survey while building { During progress of work in shops - } *2nd April, 1943.*
 { During erection on board vessel - } *✓*
 Total No. of visits *One in shop*
 Dates of Examination of principal parts—Cylinders *2.4.43* Covers *2.4.43* Pistons *2.4.43* Piston rods *✓*
 Connecting rods *2.4.43* Crank and Flywheel shafts *2.4.43* Intermediate shafts *✓*
 Crank and Flywheel shafts, Material *S.M. Steel* Identification Marks *LLOYD'S NO. 4583 T.B. 2.12.42 LLOYD'S NO. 4584 T.B. 2.12.42*
 Intermediate shafts, Material *✓* Identification Marks *NO. 1024-1028-1036-1041 LLOYD'S TEST 30 KG. W.P. 15 KG. S.J. 25.3.42.*
 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.)

These engines have been built under Special Survey and all the requirements of the Rules have been complied with. The shafting as per factory reports attached. The workmanship is good and the material fulfils the requirements of the Rules. The dimensions are as specified and in accordance with the Rules and approved plans.

Owing to the shortage of oil these engines have not been tested in shop. The engines will, however, be tested under working conditions after their installation in the vessel.

The amount of Fee

£12.11.2-

When applied for,

19

Travelling Expenses (if any)

£15.28

When received,

19

Committee's Minute

Assigned

Folk Cassel

Surveyor to Lloyd's Register of Shipping.



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