

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 4441

Date of writing Report 14th June 1937 When handed in at Local Office

Received at London Office

JUN 17 1937

Port of Stockholm

No. in Survey held at
Reg. Book.

Date, First Survey 10/7-1935 Last Survey 5/3 1937

Number of Visits 19

Single
on the Twin
Triple
Quadruple
Screw vesselTons { Gross
Net

Built at Gothenburg.

By whom built A.B. Götaverken

Yard No. 510 When built

Owners Rederi A.-B. Nordstjernan, Stockholm.

Port belonging to Stockholm

Oil Engines made at Stockholm

By whom made A.B. Atlas-Diesel

Contract No. 85503-05 When made 1937

Generators made at

By whom made

Contract No. When made

No. of Sets 3 Engine Brake Horse Power 225 Nom. Horse Power as per Rule 51 Total Capacity of Generators Kilowatts.

OIL ENGINES, &c.—Type of Engines One Diesel Oil engine type K331 2 stroke cycle 2 Single or double acting single

Maximum pressure in cylinders 55 kg/cm² Diameter of cylinders 250 mm. Length of stroke 420 mm. No. of cylinders 3 No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 328 mm. Is there a bearing between each crank Yes.

Revolutions per minute 335 Flywheel dia. 1300 mm. Weight 1100 kg Means of ignition Compression Kind of fuel used Marine Diesel Oil.

Crank Shaft, dia. of journals as per Rule 160 mm. Crank pin dia. Crank Webs Mid. length breadth 214 mm Thickness parallel to axis

The flywheel is fitted as fitted on the crankshaft.

Mid. length thickness 90 mm Thickness around eyehole

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners

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

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 120 litres/min.

Air Compressors, No. none fitted No. of stages Diameters Stroke Driven by

Scavenging Air Pumps, No. 3 x 1 Diameter 500 mm. Stroke 240 mm. Driven by engine

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule

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

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

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. 1 Total cubic capacity 400 litres Internal diameter 500 mm. thickness 11.5 mm.

Seamless, lap welded or riveted longitudinal joint lap welded Material S.M. Steel. Range of tensile strength 58 kg/mm² as a min. Working pressure by Rules 25 kg/cm²

ELECTRIC GENERATORS:—Type

Pressure of supply volts. Full Load Current Amperes. Direct or Alternating Current

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 Shafing. E 29.8.34. Receivers E 12.5.31 Separate Tanks

SPARE GEAR as per enclosed list. The Spare Gear has been examined before it was dispatched.

The foregoing is a correct description.

AKTIEBOLAGET ATLAS DIESEL

G. Jacobsson

Manufacturer.



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Foundation

002024-002037-0178

Dates of Survey while building { During progress of work in shops - - } 10/7, 11/9, 11/12, 18/12-35, 4/5, 9/7, 15/7, 20/7, 17/9, 29/9, 7/10, 19/11, 26/11, 3/12, 5/12, 29/12-36, 12/1, 1/3, 5/3-37.
{ During erection on board vessel - - - }
Total No. of visits in shop 19

Dates of Examination of principal parts—Cylinders $\frac{38.29}{12}$ 36-1/3 37. Covers $\frac{38.29}{12}$ 36 1/3 37 Pistons $\frac{38.29}{12}$ 36 1/3 37 Piston rods —

Connecting rods $\frac{10}{7}$, $\frac{11.418}{12}$ 35 1/3-37 Crank and Flywheel shafts $\frac{18}{12}$ -35, $\frac{15}{7}$ -36, $\frac{20}{7}$ -36. Scav. air pump Intermediate shafts $\frac{20}{7}$ -36 $\frac{15}{7}$ -36

Crank and Flywheel shafts, Material S. M. Steel.

Identification Mark LLOYD'S N° 6510 LLOYD'S N° 6698 LLOYD'S N° 6690 LLOYD'S N° 6706 LLOYD'S N° 6708

Scav. air pump. Intermediate shafts, Material S. M. Steel.

Identification Marks KA 18.12.35 K.A. 15.7.36 T.B. 20.7.36 LLOYD'S N° 6690 LLOYD'S N° 6706 LLOYD'S N° 6708 KA 20.7.36 K.A. 20.7.36 T.B. 15.7.36

Is this machinery duplicate of a previous case Yes If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.)

3 Generator Shafts of S. M. Steel, have been delivered by Messrs. A. B. Atlas Diesel, same have been tested and marked as follows:—

Engine N° 85503

Engine N° 85504

Engine N° 85505

LLOYD'S N° 6794

LLOYD'S N° 6795

LLOYD'S N° 6796

K.A. 7.11.36.

K.A. 7.11.36.

K.A. 7.11.36.

We are of opinion that these engines are of superior material and workmanship and, as they have been constructed under Special Survey we respectfully submit that they be approved as Auxiliaries, when fitted into Messrs. A. B. Götaverkeas, M.S. 510, to the satisfaction of the Society's Surveyors.

The amount of Fee Known £ 684:—

When applied for,

19

Travelling Expenses (if any) £

When received,

4. 8. 1937 & 10. 8

K. J. Andersson & Thorsen Balow
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE 21 SEP 1937

Assigned

See Got 11428



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