

Report on Oil Engine Electric Generator Sets.

No. 14385.

Received at London Office 3-OCT-1945

Date of writing Report 18/9 1945 When handed in at Local Office 26/9 1945 Port of Gothenburg.

No. in Survey held at Gothenburg Date, First Survey 25th Febr. 1941 Last Survey 11th Sept 1945.

Reg. Book. Number of Visits 34

39057 on the ~~1000~~ ~~XXXX~~ ~~XXXXXX~~ Single Screw vessel "OLAV BAKKE" Tons Gross 5870 Net 4984

Built at Gothenburg By whom built A-B. Götaverken Yard No. 561 When built 1945.

Owners D/S A/S. Jeanette Skimmer Port belonging to Hangesund.

Oil Engines made at Gothenburg By whom made A-B. Götaverken Contract No. 1502/3/4 When made 1945.

Generators made at Odense By whom made Thomas B. Thrige Contract No. 235972/3/4 When made 1945.

No. of Sets 3 Engine Brake Horse Power 3x285 Nom. Horse Power as per Rule 3x67.7 Total Capacity of Generators 510 Kilowatts.

OIL ENGINES &c.— Type of Engines Heavy oil engines 2 or 4 stroke cycle 4 Single or double acting S.A.

Maximum pressure in cylinders 45 kg/cm² Diameter of cylinders 300 mm Length of stroke 450 mm No. of cylinders 3 x 5 No. of cranks 3 x 5

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 378 mm Is there a bearing between each crank Yes

Revolutions per minute 300 Flywheel dia. 1500 mm Weight 3800 kg Means of ignition Compression Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule 175 mm as fitted 190 mm Crank pin dia. 190 mm Crank Webs Mid. length breadth 265 mm Thickness parallel to axis --- Mid. length thickness 105 mm shrunk Thickness around eyehole ---

Flywheel Shaft, diameter as per Rule --- Intermediate Shaft, diameter as per Rule --- Thickness of cylinder liners 24 mm

Is a governor or other arrangement fitted to prevent racing of the engine Yes Means of lubrication Forced

Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Lagged

1 salt water 550 litres per minute and 1 fresh water 550 litres per minute. Also connected to the main Cooling Water Pumps, No. cooling system Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size 4400 litres per hour each engine

Air Compressors, No. None No. of stages --- Diameters --- Stroke --- Driven by ---

Scavenging Air Pumps, No. None Diameter --- Stroke --- Driven by ---

AIR RECEIVERS:— Have they been made under Survey Yes (See below) State No. of Report or Certificate ---

Is each receiver, which can be isolated, fitted with a safety valve as per Rule Safety plug

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

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

High Pressure Air Receivers, No. None 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 130 l Internal diameter 302 mm thickness 8 mm

Seamless, lap welded or riveted longitudinal joint Seamless Material S.M. Steel Range of tensile strength 41-47 kg/mm² Working pressure by Rules 42.5 kg/cm²

ELECTRIC GENERATORS:— Type Drip proof compound

Pressure of supply 220 volts Full Load Current 3 x 773 Amperes Direct or Alternating Current Direct 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 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 or shielded that they cannot be accidentally earthed, short circuited, or touched Yes 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

PLANS. Are approved plans forwarded herewith for Shafting 23.2.1939 Receivers 19.2.1940 Separate Tanks ---
(If not, state date of approval)

SPARE GEAR As per Rule supplied.

The foregoing is a correct description,

ARTIFERLAGET GÖTAVERKEN

Manufacturer.



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Lloyd's Register
Foundation

003659-003670-0267

Dates of Survey while building { During progress of work in shops - - } 25th February 1941 - 8th November 1943.
{ During erection on board vessel - - } 11th November 1943 - 11th September 1945.
Total No. of visits 34.

Dates of Examination of principal parts—Cylinders 14&15.7. and 8.8. 1943 Covers. 14 & 15.7 & 8.8.1943 Pistons. 12.7.1943 Piston rods. ---

Connecting rods. 12.7.1943 Crank ~~shafts~~ shafts 28.12.1943 Intermediate shafts. ---

Crank and Flywheel shafts, Material. S.M. Steel Identification Marks LLOYDS 10785 PK 23.11.40 LLOYDS 10786/7 PK 27.9.40

Intermediate shafts, Material. --- Identification Marks. ---

Identification marks on Air Receivers No. 977 LLOYDS TEST 1138 LBS. WP 569 LBS. MB 24.9.40

Is this machinery duplicate of a previous case. Yes If so, state name of vessel. Barranduna, Sofie Bakke, Knut Bakke.

A-B. Götaverken Yard No.s 560, 553 and 554 respectively.

General Remarks (State quality of workmanship, opinions as to class, &c. These auxiliary engines have been built under special survey. The shafting as per forging reports attached. The workmanship is good and all the requirements of the Rules have been complied with.

(The Surveyor are requested not to write on or below the space for Committee Minute.)

The amount of Fee £ : When applied for, 19
Travelling Expenses (if any) £ : When received, 19

Committee's Minute Fri. 2. NOV. 1945
Assigned See F.E. machy. rpt.

Stein Johansen
Surveyor to Lloyd's Register of Shipping.