

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 21640.

Received at London Office

Writing Report 10th Nov. 1948. When handed in at Local Office 12th Nov. 1948. Port of Malmö 115 NOV 1948

Survey held at Malmö. Date, First Survey 1st June, 1948. Last Survey 7th Nov. 1948. Number of Visits 27.

on the "BEAUFIGHTER" Screw vessel. Tons { Gross: 10,442 Net: 6,197.

By whom built Hockums Msk. V. A. B. Yard No. 304 When built 1948.

Ports As Oceanlinen and Skibs As Oceanfort Port belonging to Ololo

Machinery made at Malmö By whom made Hockums Msk. V. A. B. Contract No. When made 1948.

Structures made at Västervik By whom made Area Contract No. When made 1948.

Engines 2 Engine Brake Horse Power 2200 ^{2000 hp} Nom. Horse Power as per Rule 55 Total Capacity of Generators 2 x 150 Kilowatts.

ENGINES, &c.—Type of Engines MAN. G4.V.42. 2 or 4 stroke cycle 4 Single or double acting Single.

Mean pressure in cylinders 45 kg/cm² Diameter of cylinders 275 mm. Length of stroke 420 mm No. of cylinders 4 No. of cranks 4.

Bearings, adjacent to the Crank, measured from inner edge to inner edge 350 mm. Is there a bearing between each crank Yes.

Revolutions per minute 350 Flywheel dia 1650 mm. Weight 1675 kgs. Means of ignition Diesel. Kind of fuel used Heavy oil.

Shaft, dia. of journals 170 mm Crank pin dia 170 mm. Crank Webs shrunk Mid. length breadth 280 mm. Thickness parallel to axis Mid. length thickness 85 mm. Thickness round eyehole

Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 22.5 mm.

Governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Forced.

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

Sea Water Pumps, No. 1 - 36 m³/H. Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes.

Operating Oil Pumps, No. and size 1 - 2 m³/H. to each engine.

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

Refrigerating Air Pumps, No. Diameter Stroke Driven by

RECEIVERS:—Have they been made under Survey Yes. State No of Report or Certificate 169 & 170.

Receiver, which can be isolated, fitted with a safety valve as per Rule Yes.

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

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

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

Storage Air Receivers, No. 2 Total cubic capacity 20.4 m³. Internal diameter 1650 mm. thickness 27 mm.

Seamless, lap welded or riveted longitudinal joint Riveted Material S.M. steel Range of tensile strength 46.2-49.4 kg/mm² Working pressure by Rules 30.1 kg/cm².

ELECTRIC GENERATORS:—Type Area LE 125 (Open ventilated).

Voltage of supply 230 volts. Full Load Current 652 Amperes. Direct or Alternating Current Direct.

Are the generators connected to a common rotating current system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown off Yes.

Are the 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 Yes.

Are the generators so spaced Yes 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 and do the results comply with the requirements

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

Are approved plans forwarded herewith for Shafting 27.8.1946 Receivers 18.5.1946 Separate Tanks 11.6.1948.

Are the plans approved As per Rule supplied (If not, state date of approval)

Additional:— 2 cylinder covers. 1 cylinder liner. 2 pistons.

The foregoing is a correct description,

KOCKUMS
MEKANISKA VERKSTÄDS AKTIEBOLAG

T. Ståhl Manufacturer.



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Dates of Survey while building: During progress of work in shops - - From 1st June, 1948 to 27th August, 1948.
 During erection on board vessel - - " 31st Aug., 1948 " 7th November, 1948.
 Total No. of visits: 27.

Dates of Examination of principal parts—Cylinders 1/6. 21/2. 1948 Covers 17/10. 4/2. 27/4. 24/5. 17/9. 17/9. 1948. Pistons 25/6. 1948. Piston rods ✓

Connecting rods 4/6. 1948. Crank and Flywheel shafts 18/12. 1947. Intermediate shafts ✓

Crank shaft Material S. M. steel. Tensile strength 48.1 & 48.7 kg. mm².
 Elongation 40.0 & 34.0 % Identification Marks LLOYD'S Nos. 361, 362, TO

Flywheel shaft, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case No Identification Marks ✓

Identification marks on Air Receivers Nos. 169 & 170. Lloyd's Test 44 kg. cm². W.P. 30 kg. cm². A.B. 7. 10. ✓

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.) See report of main engine!
 T.V.C. approved 28/4/46 for Service Speed of 350 RPM. ✓

Im. 11. 42. T (MADE AND PRINTED IN ENGLAND). (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... Rs. 330.- When applied for 12-11-1948.
 Travelling Expenses (if any) £ : : When received 19.

FRI. 17 DEC 1946

Committee's Minute
 Assigned Su F. E. Mchly. rpt.

A. Baring
 Surveyor to Lloyd's Register of Shipping.
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