

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 21640.

Received at London Office

Reporting Report 10th Nov. 1948. When handed in at Local Office 12th Nov. 1948. Port of *Malmö* 15 NOV 1948

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

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

Malmö By whom built *Kockums Msk. V. A. B.* Yard No. 304 When built 1948.

Skibs MS Oceanien and Skibs MS Oceanfort Port belonging to *Olo*

Malmö By whom made *Kockums Msk. V. A. B.* Contract No. ✓ When made 1948.

Västervik By whom made *Osca* Contract No. ✓ When made 1948.

Engines 2 Engine Brake Horse Power 220 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*.

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 Mid. length breadth 280 mm Thickness parallel to axis ✓

as fitted 170 mm Mid. length thickness 85 mm Thickness round eyehole ✓

as per Rule ✓ 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*.

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

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 ✓

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

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

A receiver, which can be isolated, fitted with a safety valve as per Rule *Yes*.

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 ✓

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

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

ess, 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.

CTRIC GENERATORS:—Type *Osca LE 125 (Open ventilated)*

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

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

off *Yes*. Generators, are they compounded as per Rule *Yes* is an adjustable regulating resistance fitted in series with each shunt field *Yes*.

All terminals accessible, clearly marked, and furnished with sockets *Yes* Are they so spaced

ielded that they cannot be accidentally earthed, short circuited, or touched *Yes* Are the lubricating arrangements of the generators as per Rule *Yes*

Generators are under 100 kw. full load rating, have the makers supplied certificates of test ✓ and do the results comply with the requirements ✓

Generators are 100 kw. or over have they been built and tested under survey *Yes*.

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

RE GEAR *As per Rule supplied*

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

The foregoing is a correct description,

KOCKUMS
MEKANISKA VERKETADS AKTIEBOLAG

Tuck & Co. Ltd. Manufacturer.



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

Dates of Examination of principal parts—Cylinders. 1/6. 2 1/2. 1948. Covers. 17/10. 47. 20/4. 24/5. 10/9. 17/9. 1948. 25/6. 1948. Pistons. 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 %.

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 28/4/66 for Service Speed of 350 RPM. ✓

T.V.C approved 28/4/46 for Service Speed of 340 RPM. ✓

The amount of Fee ... *Rs.* : 330:- { When applied for... 12-11-1948.

Travelling Expenses (if any) £ : : { When received..... 19.....

Committee's Minute.

Assigned *See F.E. mch. sp.*

FRI. 17 DEC 1946

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

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