

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 12419

Received at London Office

JUN 10 1939

pt. 4c.

Date of writing Report 1st June 1939 When handed in at Local Office 9th June 1939 Port of GOTHENBURG

No. in Survey held at GOTHENBURG Date, First Survey 19th Jan Last Survey 13th May 1939 Number of Visits 11

on the Single Screw vessel YARD No 54 (A.B. ÖRESUNDSVARVET) Tons { Gross Net

Built at LANDSKIPONA By whom built A.B. ÖRESUNDSVARVET Yard No. 54 When built 1939

Owners M. KONOW & CO Port belonging to OSLO

Oil Engines made at GOTHENBURG By whom made A.B. GÖTAVERKEN Contract No. 1340 When made 1939

Generators made at ODENSE By whom made THOMAS B. THRISE Contract No. 232199 When made 1939

No. of Sets One Engine Brake Horse Power 115 Nom. Horse Power as per Rule 26 Total Capacity of Generators 75 Kilowatts.

IL ENGINES, &c.—Type of Engines One direct oil engine 2 or 4 stroke cycle 4 Single or double acting S.F

Maximum pressure in cylinders 45 kg/cm² Diameter of cylinders 240 mm Length of stroke 360 mm No. of cylinders 3 No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 301 mm Is there a bearing between each crank Yes

Revolutions per minute 450 Flywheel dia. 1250 Weight 2245 kg Means of ignition Compression Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule 140 mm as fitted 150 mm Crank pin dia. 150 mm Crank Webs Mid. length breadth 202 mm 211 shrunk Thickness parallel to axis — Mid. length thickness 80 mm Thickness around eyehole —

Flywheel Shaft, diameter as per Rule Flywheel fitted as fitted on the crank shaft Intermediate Shafts, diameter as per Rule — as fitted — Thickness of cylinder liners 20.17 mm

Is a governor or other arrangement fitted to prevent racing of the engine when declutched 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 Yes

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 One - 3.14 tons/hour.

Air Compressors, No. One No. of stages 2 Diameters 232 x 90 mm Stroke 220 Driven by Dist. Oil Engine

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 —

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

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

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. Two Total cubic capacity 2 x 2.5 = 5 m³ Internal diameter 1850 x 1800 mm thickness 25.5 x 25 mm Working pressure by Rules 25.2 kg/cm²

Seamless, lap welded or riveted longitudinal joint Riveted Material S.M. Steel Range of tensile strength 43-46.6 kg/cm² Working pressure by Rules 25.2 kg/cm²

ELECTRIC GENERATORS:—Type Dip proof. Compound Pressure of supply 110 volts. Full Load Current 682 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 No

Generators, are they compounded as per rule Yes is an adjustable regulating resistance fitted in series with each

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 Yes

If the generators are under 100 kw. full load rating, have the Makers supplied certificates of test Yes and do the results comply with the requirements Yes

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

PLANS. Are approved plans forwarded herewith for Shafting Jo. J. 38 Receivers 27.5.38. Separate Tanks 7.9.38

SHAFTING. Are approved plans forwarded herewith for Shafting Jo. J. 38 (If not, state date of approval)

SHAFTING GEAR No per Rule supplied.

The foregoing is a correct description.

AKTIEBOLAGET GÖTAVERKEN

W. A. M. M. M.

Manufacturer.



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Lloyd's Register

W 486-01116

Dates of Survey while building { During progress of work in shops - - } 1939 Jan. 19. Assembled 3.9.27.28 April 14.20.21.25 May 9.13.
 { During erection on board vessel - - - }
 Total No. of visits 11

Dates of Examination of principal parts—Cylinders 19/39 Covers 19/39 Pistons 19/39 Piston rods —

Connecting rods 19/39 Crank and Flywheel shafts 28.3.39 Intermediate shafts ✓

Crank and Flywheel shafts, Material S.M. Steel Identification Marks MS 0.2.54
 LLOYD'S
 CR 10264 SVL
 3.2.39.

Intermediate shafts, Material ✓ Identification Marks —

Identification marks on Air Receivers No: 445/6
 LLOYD'S TEST 40K4.
 W.P. 25174.
 3.2.4.39.

Is this machinery duplicate of a previous case? No If so, state name of vessel *Britannica* Enterick Yard No 533

General Remarks (State quality of workmanship, opinions as to class, &c.) This auxiliary engine has been built under Special Survey. The crank shaft as per forging report attached. The workmanship is good and all the requirements of the Rules have been complied with. This vessel is at present under construction at Laird's home where the auxiliary engine will be installed. The Helmingbury Surveyors should be furnished with a copy of this report.

Im. 11.37.—Transfer. (MADE IN ENGLAND.)
 (The Surveyors 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

Steu Jansson
 Surveyor to Lloyd's Register of Shipping.

FRI. 3 NOV 1939

Committee's Minute
 Assigned

See Memo. J.C. 1826



Rpt. 13.
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