

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11282

Date of writing Report 9th June 1937 When handed in at Local Office 11th June 1937 Port of Gothenburg Received at London Office JUN 12 1937

No. in Survey held at Gothenburg Date, First Survey 23rd Jan. 1937 Last Survey 27th May 1937
Reg. Book (SUPPLEMENT) 89000 on the Single Screw vessel 1/5 "KOLLBJÖRG" Number of Visits 10

Built at Gothenburg By whom built ERIKSBERGS M.V. AKTIEB. Yard No. 964 When built 1937
Owners AKTIESELSKAPET KOLLBJÖRG Port belonging to OSLO

Oil Engines made at Gothenburg By whom made ERIKSBERGS M.V. AKTIEB ENGINE Contract No. 160 When made 1937
Generators made at VÄSTERÅS By whom made ALLM. SVENSKA ELEKTR. AKTIEB Contract No. 844063 When made 1937

No. of Sets 1 Engine Brake Horse Power 125 Nom. Horse Power as per Rule 26.2 Total Capacity of Generators 82 Kilowatts.

OIL ENGINES, &c.—Type of Engines Direct oil engine, solid injection, 2 or 4 stroke cycle 2 Single or double acting single

Maximum pressure in cylinders 49 kg/cm² Diameter of cylinders 220 mm Length of stroke 370 mm No. of cylinders 2 No. of cranks 2

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 280 mm Is there a bearing between each crank Yes

Revolutions per minute 400 Flywheel dia. 1200 mm Weight 1550 Kgs Means of ignition Compression Kind of fuel used Diesel oil

Crank Shaft, dia. of journals 150 mm Crank pin dia. 150 mm Crank Webs Mid. length breadth 940 mm Thickness parallel to axis 85 mm
as fitted 150 mm Mid. length thickness 85 mm shrunk Thickness around eyehole 67.5 mm

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 18 mm
as fitted to the crank shaft as fitted None

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

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

Cooling Water Pumps, No. 2 (also connected to main engine cooling pumps) Total cubic capacity 180 liters Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size One, 275 liters per hour, direct driven

Air Compressors, No. One No. of stages 2 Diameters 250 & 280 mm Stroke 190 mm Driven by Direct driven

Scavenging Air Pumps, No. One Diameter — Stroke — Driven by Direct driven

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

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 —

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. One for both engines Total cubic capacity 180 liters Internal diameter 370 mm thickness 14 mm

Seamless, lap welded or riveted longitudinal joint Lap welded Material Al steel Range of tensile strength 34.7-41 kg/mm² Working pressure by Rules 40 kg/cm²

ELECTRIC GENERATORS:—Type Drop proof compound

Pressure of supply 220 volts. Full Load Current 373 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 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 No. 3/1/36 Receivers to 4/3/36 Separate Tanks to 3/7/36
(If not, state date of approval)

SPARE GEAR as required by the Rules has been supplied.

Additional principal parts supplied for the auxiliary engines:
1 cylinder & cover complete with cooling jacket.
1 piston complete with piston rings and also gudgeon pin.
1 bush for the gudgeon pin.
2/2 of crank pin brasses.
2/2 of main bearing brasses.
2 fuel valves complete and 3 add. valve spindles for same.
3 fuel pump plungers.

The foregoing is a correct description,

Eriksbergs Mek. Verkstads Aktiebolag Manufacturer.
Hans Eriksson



W1189-0098

Dates of Survey while building { During progress of work in shops - - } 1937: Jan 23, 28 Feb 22, March 4, 31, April 17, May 4.
 { During erection on board vessel - - - } 1937: May 10, 25, 27.
 Total No. of visits 10.

Dates of Examination of principal parts—Cylinders 22/2/37 Covers 29/2/37 Pistons 29/2/37 Piston rods ✓

Connecting rods 28/1/37 Crank and Flywheel shaft 31/3/37 Intermediate shaft ✓

Crank and Flywheel shafts, Material *S.M. Steel* Identification Mark *LLOYDS HB. 448 XB. 18.4.36*

Intermediate shafts, Material ✓ Identification Marks ✓

Is this ~~machinery~~ ^{General set.} duplicate of a previous case *No.* If so, state name of vessel *Similar to 4/5 Jotunfjell (Report 9552/1115)*

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

This auxiliary engine has been built under Special Survey and fitted on board under my inspection and has been tested and found satisfactory.

The workmanship is good and all the requirements of the Rules have been complied with.

The forging report of the crank shaft is attached.

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

S. J. Mander
 Surveyor to Lloyd's Register of Shipping.

FRI 18 JUN 1937

Committee's Minute

Assigned

See fol. J.E. 70282



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Lloyd's Register Foundation

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Im. 2, 38.—Transfer.
 (The Surveyors are requested not to write on or below the space for Committee Minutes.)