

## 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  
 No. in Survey held at Gothenburg Date, First Survey 22nd Feb. 1937 Last Survey 27th May 1937  
 Reg. Book. (Supplement) 89000 on the Turn Single 7/8 "KOLLBJÖRG" Triple 10 Number of Visits 10  
 Screw vessel 7/8 "KOLLBJÖRG" Tons { Gross 8959 Net 4978  
 Built at Gothenburg By whom built ERIKSBERGS M.V. AKTIEB. Yard No. 264 When built 1937-5  
 Owners AKTIESELSKAPET KOLLBJÖRG Port belonging to OSLO  
 Oil Engines made at Gothenburg By whom made ERIKSBERGS M.V. AKTIEB ENGINE Contract No. 161 When made 1937  
 Generators made at VÄSTERÅS By whom made ALLM. SVENSKA ELEKTR. AKTIEB Contract No. 882178 When made 1937  
 No. of Sets 1 Engine Brake Horse Power 135 Nom. Horse Power as per Rule 39.3 Total Capacity of Generators 100 Kilowatts.

OIL ENGINES, &c.—Type of Engines Diul oil engine, solid injection 2 or 4 stroke cycle 2 Single or double acting single  
 Maximum pressure in cylinders 49.0 kg/cm<sup>2</sup> Diameter of cylinders 290 mm Length of stroke 370 mm No. of cylinders 3 No. of cranks 3  
 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 350 Flywheel dia. 1200 mm Weight 1550 kg Means of ignition compression Kind of fuel used Diul oil  
 Crank Shaft, dia. of journals 150 mm as per Rule 150 mm Crank pin dia. 150 mm Crank Webs Mid. length breadth 240 mm Thickness parallel to axis 85 mm  
 as fitted 150 mm Mid. length thickness 85 mm shrunk Thickness around eye hole 67.5 mm  
 Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 18 mm  
 as fitted as per Rule Is a governor or other arrangement fitted to prevent racing of the engine when decoupled 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  
 Cooling Water Pumps, No. one Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes  
 Lubricating Oil Pumps, No. and size one 240 liters/minute, 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 as per Rule Stroke as per Rule 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 yes  
 Is there a drain arrangement fitted at the lowest part of each receiver yes  
 High Pressure Air Receivers, No. none Cubic capacity of each as per Rule Internal diameter as per Rule thickness as per Rule  
 Seamless, lap welded or riveted longitudinal joint as per Rule Material as per Rule Range of tensile strength as per Rule Working pressure by Rules as per Rule  
 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 as per Rule Material as per Rule Range of tensile strength 34.7-41 kg/cm<sup>2</sup> Working pressure by Rules 40 kg/cm<sup>2</sup>  
 ELECTRIC GENERATORS:—Type Diul proof compound (L.E.105)  
 Pressure of supply 220 volts. Full Load Current 350 Amperes. Direct or Alternating Current Direct current  
 If alternating current system, state the periodicity as per Rule 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 yes

PLANS. Are approved plans forwarded herewith for Shafting 29/6/36 Receivers 4/3/36 Separate Tanks 3/7/35  
 (If not, state date of approval) approved for 1/6/37

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 1/2 of crank pin brasses.

2 1/2 of main bearing brasses.

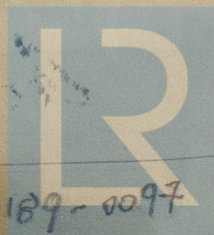
2 fuel valves complete and 3 odd. valve spindle for same.

3 fuel pump plungers.

The foregoing is a correct description,

Eriksbergs Mek. Verkstads Aktiebolag

Manufacturer.



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W1189-0097



Dates of Survey while building { During progress of work in shops - 1937: Feb 22, 24 March 4, 17, 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 22/2/37 Pistons 24/2/37 Piston rods ✓

Connecting rods 24/2/37 Crank and Flywheel shaft 17/3/37 Intermediate shaft ✓

Crank and Flywheel shafts, Material S.M. Steel Identification Mark JSH 26.11.36 4891 25K 699

Intermediate shafts, Material ✓ Identification Marks ✓

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.)

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.

A copy of the forging reports of the crank shaft is attached.

Rpt. 4c.

Date of writing

No. in S. Reg. Book. SUPPLEMENT

89000

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Owners

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PLANS.

SPARE

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1m. 2.38—Transfer.  
(The Surveyors are requested not to write in or below the space for Committee Minute.)

The amount of Fee ... £ 25 : ✓ : When applied for, ✓ 19  
Travelling Expenses (if any) £ : : When received, 19

Committee's Minute

Assigned

FRI 18 JUN 1937

See fol. J.E. 11282

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



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