

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12801

Date of writing Report 25th Jan 40 When handed in at Local Office 31st Jan. 40 Port of Gothenburg Received at London Office FEB -7 1940
No. in Survey held at Gothenburg Date, First Survey 18th Aug. 1939 Last Survey 15th Jan 1940
Reg. Book. 39774 on the Single Triple Quadruple Screw vessel M/S KOLLSKEGG. Number of Visits 26

Built at Gothenburg By whom built ERIKSBERGS M.V.A.B. Yard No. 291 When built 1940
Owners ODD BERGS TANKREDERI Port belonging to OSLO

Oil Engines made at Gothenburg By whom made ERIKSBERGS M.V.A.B. ENGINE Contract No. 232 When made 1940
Generators made at ODENSE By whom made THOMAS B THRIGE. GENERATOR Contract No. 233047 When made 1937

No. of Sets 1 Engine Brake Horse Power 150 Nom. Horse Power as per Rule 39.3 Total Capacity of Generator 100 Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy Oil Engines, Solid injection 2 or 4 stroke cycle 2 Single or double acting Single
Maximum pressure in cylinders 47 kg/cu² Diameter of cylinders 220 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 mm. Means of ignition Compression Kind of fuel used Diesel fuel oil
Crank Shaft, dia. of journals 150 mm as fitted 150 mm Crank pin dia. 150 mm Crank Webs Mid. length breadth ✓ Thickness parallel to axis 85 mm.
Mid. length thickness shrunk ✓ Thickness around eye-hole 67.5 mm.

Flywheel Shaft, diameter as per Rule ✓ Intermediate Shafts, diameter as fitted ✓ Thickness of cylinder liners 18 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 Lagged
Cooling Water Pumps, No. 300 l/min. also connected to main cool. water pumps. Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size One, 5000 lit/hour, direct driven.
Air Compressors, No. One No. of stages Two Diameters 250 and 280 mm Stroke 190 mm Driven by the aux. engine
Scavenging Air BLOWER Pumps, No. One Diameter ✓ Stroke ✓ Driven by the aux. engine

AIR RECEIVERS:—Have they been made under Survey Yes State No. of Report or Certificate ✓
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 Yes

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 aux. engs Total cubic capacity 180 litres Internal diameter 370 mm thickness 14 mm
Seamless, lap welded or riveted longitudinal joint lap welded Material Steel Range of tensile strength 41 kg/mm² Working pressure by Rules 43 kg/cu²

ELECTRIC GENERATORS:—Type Drip proof, compound
Pressure of supply 220 volts. Full Load Current 455 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 Yes
Generators, as 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 the lubricating arrangements of the generators as per Rule Yes
Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Yes and do the results comply with the requirements ✓
If the generators are under 100 kw. full load rating, have the Makers supplied certificates of test ✓
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 No, 20.4.38. Receivers No, 28.10.38. Separate Tanks No, 16.11.38.
(If not, state date of approval)

SPARE GEAR as required by the Rules has been supplied.

The foregoing is a correct description.

Eriksbergs Mek. Verkstads Aktiebolag

Voenturister

Manufacturer.



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W1189-0059

Dates of Survey while building
 During progress of work in shops - 1939. Aug. 18. 21. 26. Sept. 25. 26. Oct. 4. 10. 13. 21. 24. Nov. 11. 13. Dec. 2.
 During erection on board vessel - 1939. Oct. 24. Nov. 13. Dec. 8. 19. 28. Jan. 1940. 4. 8. 9. 10. 11. 12. 14/15.
 Total No. of visits 26

Dates of Examination of principal parts—Cylinders 18.8.39. Covers 18.8.39. Pistons 25.9.39. Piston rods ✓
 Connecting rods 25.9.39. Crank and Flywheel shafts 25.9.39. Intermediate shafts ✓

Crank and Flywheel shafts, Material S.M-steel Identification Marks LLOYD'S VS 1914 V.S. 14.3.39.
 Intermediate shafts, Material ✓ Identification Marks ✓

Identification marks on Air Receivers Main: Nos 545 and 546 LLOYD'S TEST 40 Kg W/P 25 Kg R 13.10.39. SA
 Aux.: R D 1716 GB 15.11.38. Avesta 172250 2.2.39.

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.
 The forging report of the crank shaft attached herewith.

Im. 11137.—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.....

J. Aspelin
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE 27 FEB 1940

Assigned

See for. No. 12801



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