

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 4609

Received at London Office MAR 17 1938

Date of writing Report 12th March 1938 When handed in at Local Office 10 Port of StockholmNo. in Survey held at Sickla Sker District Date, First Survey 8.3.35 Last Survey 21.1.38 19
Reg. Book.Number of Visits 18Single
on the Tonn Triple
Screw vessel "NORVIKEN"Tons { Gross
NetBuilt at Landskrona By whom built Ossundsvaret A-B Yard No. 49 When built 1938Owners Wallem & Co. A/S. Port belonging to BergenOil Engines made at Stockholm By whom made A-B Atlas Diesel Contract No. 85508/09 When made 1938

Generators made at By whom made Contract No. When made

No. of Sets 2 Engine Brake Horse Power 2x160 Nom. Horse Power as per Rule 2x35 Total Capacity of Generators Kilowatts.OIL ENGINES, &c.—Type of Engines Stationary Diesel Oil Engines type K44E or 4 stroke cycle 2 Single or double acting SingleMaximum pressure in cylinders 60 kg/cm² Diameter of cylinders 180 mm Length of stroke 300 mm No. of cylinders 4 No. of cranks 4Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 218 mm Is there a bearing between each crank YesRevolutions per minute 500 Flywheel dia. 800 mm Weight 285 kgs Means of ignition Compression Kind of fuel used Heavy Diesel OilCrank Shaft, dia. of journals as per Rule Crank pin dia. 120 mm Crank Webs Mid. length breadth 214 mm Thickness parallel to axisFlywheel Shaft, diameter as fitted Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 12 mmIs a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication pumpsAre the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material YesCooling Water Pumps, No. 2x1 Is the sea suction provided with an efficient strainer which can be cleared within the vesselLubricating Oil Pumps, No. and size 2x1 52 litres/min.Air Compressors, No. None fitted No. of stages Diameters Stroke Driven byScavenging Air Pumps, No. 2x1 Diameter 360 mm Stroke 230 mm Driven by EngineAIR RECEIVERS:—Have they been made under Survey Yes State No. of Report or CertificateIs each receiver, which can be isolated, fitted with a safety valve as per Rule YesCan the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces stud holesIs there a drain arrangement fitted at the lowest part of each receiver YesHigh Pressure Air Receivers, No. None fitted 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. 2x1 Total cubic capacity 200 litres Internal diameter 340 mm thickness 16 mmSeamless, lap welded or riveted longitudinal joint lap welded Material S.H. steel Range of tensile strength 38 kg/mm² Working pressure by Rules 50 kgs/cm²

ELECTRIC GENERATORS:—Type

Pressure of supply volts. Full Load Current Amperes. Direct or Alternating 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

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

shunt field Are all terminals accessible, clearly marked, and furnished with sockets

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

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

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

PLANS. Are approved plans forwarded herewith for Shafting E. 7.1.37 Receivers E 25.4.35 Separate Tanks

(If not, state date of approval)

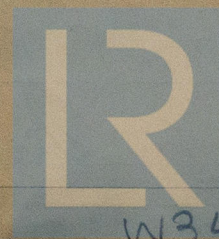
SPARE GEAR As per enclosed list. The spare gear has been examinedbefore it was despatched.

The foregoing is a correct description,

AKTIEBOLAGET ATLAS DIESEL

C. Jacobsson

Manufacturer.



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Foundation

W349-0179

Dates of Survey while building { During progress of work in shops - - } 8, 27, 18, 35, 7, 20, 8, 14, 29, 23, 28, 36, 12, 20, 17, 7, 19, 37, 7, 13, 21, 38.
During erection on board vessel - - - }
Total No. of visits 18 in shop.

Dates of Examination of principal parts—Cylinders 13/1/38. Covers 13/1/38. Pistons 13/1/38. Piston rods ✓

Connecting rods 8, 27, 18, 35, 7, 20, 8, 14, 29, 23, 28, 36, 12, 20, 17, 7, 19, 37, 7, 13, 21, 38.
Crank and Flywheel shafts 8, 27, 18, 35, 7, 20, 8, 14, 29, 23, 28, 36, 12, 20, 17, 7, 19, 37, 7, 13, 21, 38.
Generator intermediate shafts 17, 7, 37, 13, 38.

Crank and Flywheel shafts, Material S. H. Steel.

Identification Marks

LLOYD'S NO 6870 LLOYD'S NO 6765
K.A. 20.1.37 K.A. 29.10.36

Generator intermediate shafts, Material

S. H. Steel.

Identification Marks

LLOYD'S NO 7045 LLOYD'S NO 7046
T.B. 7.7.37 T.B. 7.7.37

Identification marks on Air Receivers

Nº 7183. LLOYDSTEST 100 kg. W. P. 50 kg. T.B. 19.11.37.	Nº 7184. LLOYDSTEST 100 kg. W. P. 50 kg. T.B. 19.11.37.
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Is this machinery duplicate of a previous case yes. If so, state name of vessel

Please see this Rpt No 448

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

We are of opinion that these engines are of superior material and workmanship, and as they have been designed and constructed under Special Survey, we respectfully submit that they be approved as auxiliaries, when installed into Messrs. Oresunds. vessel A.B., of Landskrona, No 49, to the satisfaction of the Society's Surveyors.

The amount of Fee ... No. 4563

Travelling Expenses (if any) £

When applied for,

When received,

Committee's Minute

Assigned

FRI. 24 JUN 1938

See Hlg. J.E. 1187

K. J. Anderson & Thomas Talow
Surveyor to Lloyd's Register of Shipping.



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