

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 4610

Received at London Office MAR 17 1938

Date of writing Report 12th March, 1938 When handed in at Local Office Stockholm Port of Stockholm
No. in Survey held at Siekkla, Skm. District. Date, First Survey 9/7/36 Last Survey 4/2/ 1938.
Reg. Book. Number of Visits 12

on the Single Screw vessel "NORVIKEN" Tons {Gross _____ Net _____
Triple
Quadruple

Built at Landskrona. By whom built Önsundsvarett A-B. Yard No. 49. When built 1938.
Owners Wallem & Co. A/S. Port belonging to Bergen.

Oil Engines made at Stockholm. By whom made A.B. Atlas-Diesel. Contract No. 85513 When made 1938.

Generators made at _____ By whom made _____ Contract No. _____ When made _____

No. of Sets 1 Engine Brake Horse Power 200 Nom. Horse Power as per Rule 44 Total Capacity of Generators _____ Kilowatts.

OIL ENGINES, &c.—Type of Engines Stationary Diesel Oil Engine, type K45E2 or 4 stroke cycle 2 Single or double acting Single

Maximum pressure in cylinders 60 kgs/cm² Diameter of cylinders 180 mm. Length of stroke 300 mm. No. of cylinders 5 No. of cranks 5

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 218 mm. Is there a bearing between each crank Yes.

Revolutions per minute 500 Flywheel dia. 800 mm. Weight 285 kgs. Means of ignition Compression Kind of fuel used Maine Diesel Oil

Crank Shaft, dia. of journals as per Rule _____ as fitted 125 mm. Crank pin dia. 120 mm. Crank Webs Mid. length breadth 214 mm. Thickness parallel to axis _____
Mid. length thickness 54 mm. shrunk Thickness around eyehole _____

The flywheel is fitted on the crank shaft. Flywheel Shaft, diameter as per Rule _____ as fitted _____ Intermediate Shafts, diameter as per Rule _____ as fitted _____ Thickness of cylinder liners 12 mm.

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

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. 1. Is the sea suction provided with an efficient strainer which can be cleared within the vessel _____

Lubricating Oil Pumps, No. and size 1 80 litres/min.

Air Compressors, No. None fitted No. of stages _____ Diameters _____ Stroke _____ Driven by _____

Scavenging Air Pumps, No. 1 Diameter 400 mm. Stroke 230 mm. Driven by 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 Mudhole.

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

High 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. One. Total cubic capacity 100 litres Internal diameter 340 mm. thickness 16 mm.

Seamless, 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
as a min.

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. 28/4/35 Separate Tanks _____
(If not, state date of approval)

SPARE GEAR as per enclosed list. The spare gear has been examined before it was despatched.

The foregoing is a correct description,

AKTIEBOLAGET ATLAS DIESEL

G. Jacobsson

G. Jacobsson

Manufacturer.



© 2019

Lloyd's Register Foundation

W349-0180

Dates of Survey while building
 During progress of work in shops - - } 9, 30, 23, 36; 12, 28, 8, 11, 6, 37; 7, 15, 21, 4, 38;
 During erection on board vessel - - - } 7, 12, 1, 2, 3, 1, 2
 Total No. of visits R in shop.

Dates of Examination of principal parts—Cylinders 21/1/38 Covers 21/1/38 Pistons 21/1/38 Piston rods
 Connecting rods 9, 30, 23, 36; 12, 37, 21, 38 Crank and Flywheel shafts 8, 6, 37; 21, 38. Generator 28, 11, 37; 21, 38.
 Intermediate shafts 1, 2, 1

Crank and Flywheel shafts, Material S.H. Steel. Identification Marks LLOYDS No 6913. T.B. 6.3.37.

Generator Intermediate shafts, Material S.H. Steel. Identification Marks 6909 K.A.

Identification marks on Air Receivers. No 8266 LLOYDS TEST 100 kg. W.P. 50 kg. K.A. 7.1.38.

Is this machinery duplicate of a previous case Yes If so, state name of vessel Please see Skm. Rpt. No 4487.

General Remarks (State quality of workmanship, opinions as to class, &c.)
 We are of opinion that this engine is of superior material and workmanship, and as it has been designed and constructed under Special Survey, we have respectfully to submit that it be approved as auxiliary, when installed into Messrs. Oresundsvarens A.B., of Landskrona, No 49, to the satisfaction of the Society's Surveyors.

1m.5.37.—Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee No. 228:—
 Travelling Expenses (if any) £ : :
 When applied for, 19
 When received, 19

R. H. Anderson & Arthur Pilow
 Surveyors to Lloyd's Register of Shipping.

(228.—Received as per Sec. letter '7' of the 3.6.1938 to the Hbg Surveyor.)
 FRI. 24 JUN 1938

Committee's Minute
 Assigned

See Hbg J.E. 1187



© 2019 Lloyd's Register Foundation