

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 13096

Received at London Office

JAN 27 1941

of writing Report 17th Oct. 1940 When handed in at Local Office 5th Nov. 1940 Port of *Eathenburg*
 in Survey held at *Lysekil* Date, First Survey 16th Oct. Last Survey 1940
 Book. Number of Visits 1

on the *Single*
Twin
Triple
Quadruple Screw vessel

m/s "Glan."

Tons ^{Gross}
 Net

at *STOCKHOLM*By whom built *A.B. EKENBERGS VARV*Yard No. *177* When built -ers *REDARTRANS-OCEAN*Port belonging to *SO THENBURG*Engines made at *LYSEKIL*By whom made *A.B. SKANDIA-VERKEN*

Contract No. - When made 1940

Generators made at

By whom made

Contract No. - When made

of Sets *ONE* Engine Brake Horse Power *30* ✓ Nom. Horse Power as per Rule *76* Total Capacity of Generator *25* Kilowatts.

ENGINES, &c.—Type of Engines *Heavy oil engine* 2 or 4 stroke cycle *2* Single or double acting *Single*

Maximum pressure in cylinders *20 kg/cm²* Diameter of cylinders *170 mm* ✓ Length of stroke *140 mm* No. of cylinders *2* ✓ No. of cranks *2* ✓

of bearings, adjacent to the Crank, measured from inner edge to inner edge *418 mm* Is there a bearing between each crank *No*

Revolutions per minute *800* ✓ Flywheel dia. *500 mm* ✓ Weight *120 kg.* ✓ Means of ignition *Compression* Kind of fuel used *Diesel oil*

Crank Shaft, dia. of journals as per Rule *73 mm* ✓ Crank pin dia. *80 mm* ✓ Crank Webs Mid. length breadth *112 mm* ✓ Thickness parallel to axis *shrunk*

as fitted *80 mm* ✓ Mid. length thickness *40 mm* ✓ Thickness around eyehole *shrunk*

Wheel Shaft, diameter as per Rule *as fitted* ✓ Intermediate Shafts, diameter as per Rule *as fitted* ✓ Thickness of cylinder liners *10 mm*

governor or other arrangement fitted to prevent racing of the engine when declutched *Yes* ✓ Means of lubrication *Automatic lubricator*

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

ing Water Pumps, No. *One at 18.75 l/min.* Is the sea suction provided with an efficient strainer which can be cleared within the vessel *Yes* ✓

icating Oil Pumps, No. and size *Yes* ✓

Compressors, No. *Yes* ✓ No. of stages *Yes* ✓ Diameters *Yes* ✓ Stroke *Yes* ✓ Driven by *Yes* ✓

enging Air Pumps, No. *Yes* ✓ Diameter *Yes* ✓ Stroke *Yes* ✓ Driven by *Yes* ✓

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

h receiver, which can be isolated, fitted with a safety valve as per Rule *Yes* ✓

he internal surfaces of the receivers be examined *Yes* ✓ What means are provided for cleaning their inner surfaces *Steam or soda* ✓

re a drain arrangement fitted at the lowest part of each receiver *Yes* ✓

Pressure Air Receivers, No. *None* Cubic capacity of each *Yes* ✓ Internal diameter *Yes* ✓ thickness *Yes* ✓

less, lap welded or riveted longitudinal joint *Yes* ✓ Material *Yes* ✓ Range of tensile strength *Yes* ✓ Working pressure by Rules *Yes* ✓

ing Air Receivers, No. *One* Total cubic capacity *70 litres* Internal diameter *300 mm* thickness *6 mm*

less, lap welded or riveted longitudinal joint *Welded* Material *SM Steel* Range of tensile strength *41-47 kg/cm²* Working pressure by Rules *19.2 kg/cm²* *20.45 kg/cm²*

CTRIC GENERATORS:—Type

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

ernating current system, state the periodicity Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off

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

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

ey so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Are the lubricating arrangements of the generators as per Rule

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

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

NS. Are approved plans forwarded herewith for Shafting *29.4.40 at Ent.* Receivers *9.7.40 at Ent.* Separate Tanks *Yes* ✓

RE GEAR *As per Rule supplied.*

The foregoing is a correct description.

SKANDIA-VERKEN, A. B.

Manufacturer.

W. Leafstadin



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5710-0175

Rep. 4. C.

No 13096.

Dates of Survey while building { During progress of work in shops - - } 17.10.40
 { During erection on board vessel - - - }
 Total No. of visits 1

Dates of Examination of principal parts—Cylinders 17.10.40 Covers 17.10.40 Pistons 17.10.40 Piston rods —

Connecting rods 17.10.40 Crank and Flywheel shaft 17.10.40 Intermediate shafts —

Crank and Flywheel shafts, Material S. M. Steel Identification Marks LLOYD'S No 789
 Sup. 23.9.40

Intermediate shafts, Material — Identification Marks —

Identification marks on Air Receivers
 No 640
 LLOYD'S TEST
 40 kg.
 W.P. 20 kg.
 G.R. 12.7.40

Is this machinery duplicate of a previous case — If so, state name of vessel —

General Remarks (State quality of workmanship, opinions as to class, &c.) This auxiliary engine has been under Special Survey. The crank shaft as per foregoing report attached. The workmanship is good and all the requirements of the Rules have been complied with.

This engine for driving 25 KW. dynamo & bilge pump
 See Skm. Ltr. 7/1/42

Im. 11.37.—Transfer. (MADE IN ENGLAND.)

(The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... 26.60:00 : When applied for, 20th Oct. 1940
 Travelling Expenses (if any) 16.15:20 : When received, 19

Committee's Minute

TUE. 2 DEC 1941

Assigned

See Skm. 26 5332

Sten Polmson
 Surveyor to Lloyd's Register of Shipping.



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