

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 13293

Received at London Office

Date of writing Report 21st Oct. 1941 When handed in at Local Office 19 Port of Bathenburg
 No. in Survey held at LYSEKIL Date, First Survey 20th Oct. Last Survey 1941
 Reg. Book. Number of Visits 1

Single
on the Twin
Triple } Screw vessel
Quadruple }

Tons { Gross
Net

Built at STOCKHOLM By whom built A.B. EKENSBETGJS VARV Yard No. When built
 Owners Port belonging to
 Oil Engines made at LYSEKIL By whom made SKANDIA-VERKEN A.B. Contract No. 221075 When made 1941
 Generators made at By whom made Contract No. When made
 No. of Sets 1 Engine Brake Horse Power 50 Nom. Horse Power as per Rule 17 Total Capacity of Generators 30 Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy oil engine 2 or 4 stroke cycle 25C Single or double acting 59
 Maximum pressure in cylinders 20 kg/cm² Diameter of cylinders 190 Z Length of stroke 180 Z No. of cylinders 2 No. of cranks 2
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 472 Is there a bearing between each crank No
 Revolutions per minute 800 Flywheel dia. 800 Z Weight 260 kg Means of ignition Hot bulb. Kind of fuel used Kerosene oil
 Crank Shaft, dia. of journals 90 Z Crank pin dia. 90 Z Crank Webs Mid. length breadth 124 Z Thickness parallel to axis -
 as fitted 90 Z Mid. length thickness 48 Z shrunk Thickness around eyehole -
 Flywheel Shaft, diameter as per Rule - Intermediate Shafts, diameter as per Rule - Thickness of cylinder liners 15 Z
 as fitted - as fitted -
 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 Water cooled
 Cooling Water Pumps, No. One Is the sea suction provided with an efficient strainer which can be cleared within the vessel -
 Lubricating Oil Pumps, No. and size One adjustable automatic lubricator.
 Air Compressors, No. - No. of stages - Diameters - Stroke - Driven by -
 Scavenging Air Pumps, No. - Diameter - Stroke - Driven by -

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 Steam & sand
 Is there a drain arrangement fitted at the lowest part of each receiver Yes
 High Pressure Air Receivers, No. - 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 70 litres Internal diameter 100 Z thickness 6 Z
 Seamless, lap welded or riveted longitudinal joint Lap welded Material 316 steel Range of tensile strength 544-55.3 kg/cm² Working pressure by Rules 25.5 kg/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 30.7.41 Receivers 9.7.40 Separate Tanks -
 (If not, state date of approval)

SPARE GEAR As per Rules supplied.

X/ No air receivers fitted

The foregoing is a correct description,

SKANDIA-VERKEN, A. B.
Ludrik Andersson

Manufacturer.



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Dates of Survey while building { During progress of work in shops - - 20.10.41
During erection on board vessel - - -
Total No. of visits

Dates of Examination of principal parts—Cylinders 20.10.41 Covers 20.10.41 Pistons 20.10.41 Piston rods —

Connecting rods 20.10.41 Crank and Flywheel shaft 13/8 & 20/10 41 Intermediate shaft —

Crank and Flywheel shafts, Material SM. steel Identification Mark 44042's
N2986
SS 13.8.41

Intermediate shafts, Material — Identification Marks —

Is this machinery duplicate of a previous case — If so, state name of vessel — In receive: N2686
44042's TCST 40 H6/22
UP 20.11.41
S.P. 20.9.41

General Remarks (State quality of workmanship, opinions as to class, &c. This engine has been built under

Special Survey and all the requirements of the Rules have been complied with. The shafting as per forging report attached. The workmanship is good and the material fulfils the requirements of the Rules. The dimensions are as specified and in accordance with the Rules and approved plans. The engine has been tested under full working power on the test bed and found to work satisfactorily.

3/2 The amount of Fee ... 121 54/00
Travelling Expenses (if any) 12 17/65

When applied for, 19
When received, 19

Sten Tolmason
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned



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