

4c.

7 MAR 1953

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 19686

of writing Report 18th March 1953 When handed in at Local Office 25th March 1953 Port of Gothenburg Received at London Office 23 JUN 1953

in - Survey held at Gothenburg Date, First Survey 15th December, 1952 Last Survey 17th March, 1953. Number of Visits 14.

on the ~~Ship~~ Screw vessel "MADELEINE" Tons { Gross 10220 Net ---

at Landskrona By whom built Öresundsvarvet Aktiebolag Yard No. 126 When built 1953.

ers A/B Verna Port belonging to Hälsingborg

Engines made at Gothenburg By whom made Aktiebolaget Götaverken Engine No. 2504/5 When made 1953.

Generators made at Västerås By whom made A. S. E. A. Generator No. 2953565/8 When made ---

of Sets 2 B.H.P. of each Set 250 M.N. as per Rule 100 Capacity of each Generator 165 Kilowatts.

intended for essential services Yes

ENGINES, &c. Type of Engines Heavy oil, trunk piston, DM 240/360 H 6 2 or 4 stroke cycle 2 Single or double acting SA

imum pressure in cylinders 45 kgs/cm² Diameter of cylinders 240 mm Length of stroke 360 mm No. of cylinders 6 No. of cranks 6

indicated pressure 6.6 kgs/cm² Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 301 mm

ere a bearing between each crank Yes Moment of inertia of flywheel (Kg.cm.sec²) 1922 Revolutions per minute 450

heel dia. 1250 mm. Weight 815 Kgs. Means of ignition Compression Kind of fuel used Diesel oil

ank Shaft, Solid forged dia. of journals & Appd. 160 mm. Crank pin dia. 160 mm. Crank Webs Mid. length breadth 215 mm. Thickness parallel to axis ---

heel Shaft, diameter as per Rule --- Generator armature, moment of inertia (Kg.cm.sec²) 590. Mid. length thickness 80 mm. Thickness round eyehole ---

means provided to prevent racing of the engine Yes Means of lubrication Forced Kind of damper if fitted None fitted

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

ing Water Pumps, No. and how driven --- Is the sea suction provided with an efficient strainer which can be cleared within the vessel ---

icating Oil Pumps, No. and size 1 x 4100 lit./hours

Compressors, No. No. of stages Diameters Stroke Driven by

enging Air Pumps or Blowers, No. How driven

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

(other than main engines) full details of safety devices

the internal surfaces of the receivers be examined and cleaned

ere a drain arrangement fitted at the lowest part of each receiver

Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

less, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure

ing Air Receivers, No. Total cubic capacity Internal diameter thickness

less, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure

ELECTRIC GENERATORS:—Type Drip proof compound

sure of supply 220 volts. Full Load Current 750 Amperes. Direct or Alternating Current Direct current

ternating current system, state the periodicity --- Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

nd off Yes Generators, are they compounded as per Rule --- is an adjustable regulating resistance fitted in series with each shunt field ---

all terminals accessible, clearly marked, and furnished with sockets. --- Are they so spaced

ielded that they cannot be accidentally earthed, short circuited, or touched. --- Are the lubricating arrangements of the generators as per Rule Yes.

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

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

ls of driven machinery other than generator Generators only.

NS.—Are approved plans forwarded herewith for Shafting 7.2.1946 & 7.5.1952 Receivers --- Separate Tanks ---

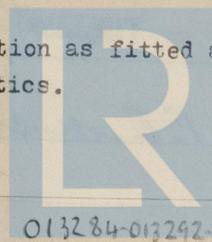
(If not, state date of approval) Torsional Vibration characteristics if applicable been approved 7.2.1946 & 7.5.1952 Armature shaft Drawing No. 108098

(State date of approval and name of previous duplicate case, if any) the spare gear required by the Rules been supplied As per Rule supplied

The foregoing is a correct description, and particulars of the installation as fitted are as approved for torsional vibration characteristics.

AKTIEBOLAGET GÖTAVERKEN

Manufacturer.



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013284-01242-0287

Dates of Survey while building
 During progress of work in shops - - 15.12.1952. - 17.3.1953.
 During erection on board vessel - - -
 Total No. of visits 14.

Dates of Examination of principal parts—Cylinders 17, 20, 23/12-52. Covers 17, 20, 23/12-52. Pistons 26.1.1953. Piston rods
 Connecting rods 26.1.1953. Crank and Flywheel shafts 2.1.1953. Intermediate shafts

Crank shaft Material S.M. Steel Tensile strength 51.3 - 53.9 kgs/mm².
 Elongation 32 - 29 % on 50 mm. Identification Marks Lloyd's No. 376 SG 14.8.52. Lloyd's No. 3739 SJ 21.8.52.

Flywheel shaft, Material Identification Marks
 Identification marks on Air Receivers

Is this machinery duplicate of a previous case Yes If so, state name of vessel M.S. "BAHIA" Gothenburg First Entry Rpt. No. 18871

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

These auxiliary engines have been built under Special Survey in accordance with the Rules and approved plans.
 The workmanship and materials are good and test sheets for the crank shafts are attached.
 The engines have been tested under working conditions in the shop and found to work satisfactorily.

301,651.-T. (MADE AND PRINTED IN GREAT BRITAIN)
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... Kr. 640:00
 Travelling Expenses (if any) £ : : :
 When applied for 25th March 1953
 When received 19

TUESDAY 21 JUL 1953

Committee's Minute
 Assigned See F.E. mechy. rpt.

[Signature]
 Surveyor to Lloyd's Register of Shipping.

