

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

Received at London Office
 Date of writing Report 13/3 19 48 When handed in at Local Office 13/3 19 48 Port of HELSINGBORG 17 MAR 1948
 Date, First Survey 17/11 1947 Last Survey 11/3 19 48
 Number of Visits 5
 Survey held at Helsingborg
 on the ^{Single} ~~Triple~~ Screw vessel Motorvessel "S O M M E N". Tons { Gross 3927 Net 2608
 Built at Richmond, Cal. By whom built Kaiser Cargo Inc. Yard No. 68 When built 1945
 Owners Rederi A/B Sigyn Port belonging to Helsingborg 44063/64
 Engines made at San Francisco By whom made Enterprise Eng. & Found. Contract No. 7 When made 1945
 Generators made at By whom made General Electric Contract No. 2094061 2159089 When made 1945
 No. of Sets Two Engine Brake Horse Power 450 Nom. Horse Power as per Rule 112 Total Capacity of Generators 2x250 Kilowatts.

ENGINES, &c.—Type of Engines Enterprise DSG-6 2 or 4 stroke cycle 4 Single or double acting Single
 Maximum pressure in cylinders 740 lbs/sq in. Diameter of cylinders 12" Length of stroke 15" No. of cylinders 6 No. of cranks 6
 Distance between bearings, adjacent to the Crank, measured from inner edge to inner edge 12.3/8" Is there a bearing between each crank Yes
 Revolutions per minute 450 Flywheel dia. 8'-0" Weight - Means of ignition Compr. Kind of fuel used Diesel oil
 Crank Shaft, dia. of journals as per Rule - as fitted 8.9/20" Crank pin dia. 8" Crank Webs Mid. length breadth 16 1/2" Thickness parallel to axis -
 as fitted 3" shrunk Mid. length thickness 3" Thickness round eyehole -
 Crank wheel Shaft, diameter as per Rule - as fitted - Intermediate Shafts, diameter as per Rule - as fitted - Thickness of cylinder liners 3/4"
 Is there 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, direct driven Yes
 Cooling Water Pumps, No. 1 salt- & 1 fresh / Is the sea suction provided with an efficient strainer which can be cleared within the vessel No
 Lubricating Oil Pumps, No. and size 1 direct driven 11.4 m³/hour.

Compressors, No. - No. of stages - Diameters - Stroke - Driven by -
 Sucking Air Pumps, No. - Diameter - Stroke - Driven by -
RECEIVERS:—Have they been made under Survey - State No. of Report or Certificate -
 Is each receiver, which can be isolated, fitted with a safety valve as per Rule -
 Are the internal surfaces of the receivers be examined - What means are provided for cleaning their inner surfaces -
 Is there a drain arrangement fitted at the lowest part of each receiver -
 High Pressure Air Receivers, No. - Cubic capacity of each - Internal diameter - thickness -
 Is it seamless, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -
 Sucking Air Receivers, No. - Total cubic capacity - Internal diameter - thickness -
 Is it seamless, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

ELECTRIC GENERATORS:—Type General Electric M.P.G.
 Voltage of supply 120/240 volts Full Load Current 2x1042 Amperes Direct or Alternating Current Direct
 Is it an alternating current system, state the periodicity - Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown
 on and off Yes Generators, are they compounded as per Rule Yes is an adjustable regulating resistance fitted in series with each shunt field Yes
 Are all terminals accessible, clearly marked, and furnished with sockets Yes Are they so spaced
 and shielded that they cannot be accidentally earthed, short circuited, or touched Yes Are the lubricating arrangements of the generators as per Rule Yes
 Do the generators are under 100 kw. full load rating, have the makers supplied certificates of test - and do the results comply with the requirements -
 Do the generators are 100 kw. or over have they been built and tested under survey -

PLANS.—Are approved plans forwarded herewith for Shafting - Receivers - Separate Tanks -
 (If not, state date of approval)

ARE GEAR As per Rule.
 Additional spare gears supplied:-
 2 cylinder covers, 2 cylinder liners, 2 pistons, 2 connecting rods, 2 bottom end bearings, 3 top
 end bearings, 3 main bearings.

Firing order 1-5-3-6-2-4.

The foregoing is a correct description,
 Manufacturer.



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Dates of Survey while building { During progress of work in shops - -)
{ During erection on board vessel - -)
Total No. of visits 5

Dates of Examination of principal parts—Cylinders S. 17.11.47 Port 9.12.47 P 9.12.47 P. 9.12.47
Covers S. 17.11.47 Pistons S. 17.11.47 Piston rods -

Connecting rods Port 9.12.47 Stbd. 17.11.47 Crank and Flywheel shafts P. 9.12.47 S. 17.11.47 Intermediate shafts -

Crank shaft { Material - Tensile strength -
{ Elongation - Identification Marks -

Flywheel shaft, Material - Identification Marks -

Is this machinery duplicate of a previous case - Identification Marks -

Identification marks on Air Receivers -

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.) These auxiliary engines were originally built under the special supervision of the Surveyors to the American Bureau of Shipping and classed with that Society but have now been surveyed by me for Classification with this Society.

The condition and standard of workmanship, as now seen, is considered to be good and satisfactory. Please see Rpt. 4b regarding opinion as to class, &c.

The amount of Fee ... £ : -- : { When applied for - 19
Travelling Expenses (if any) £ : -- : { When received - 19

Committee's Minute

Assigned

see JE Rpt

T. C. Loggins
Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation

Im. 11. 42. T (MADE AND PRINTED IN ENGLAND)
(The Surveyors are requested not to write on or below the space for Committee Minute.)