

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 20454.

SEP 21 1938

FEB 19 1938

Date of writing Report 18.2.38 When handed in at Local Office 18.2.38 Port of Grimsby
 No. in Survey held at Lincoln Date, First Survey 11-6-37 Last Survey 10.2.1938
 Reg. Book. Single on the Twin Triple Quadruple Screw vessel T.S. CANTON Tons {Gross _____ Net _____
 Number of Visits 12

Built at Glasgow By whom built A. Stephens, Ltd Yard No. _____ When built _____
 Owners _____ Port belonging to _____

Oil Engines made at Lincoln By whom made Ruston & Hornsby, Ltd ENGINE Contract No. 183495 When made 1938
 Generators made at Horwich By whom made Laurence, Scott & Electromotors, Ltd GENERATOR Contract No. 44560 When made 1937
 No. of Sets 1 Engine Brake Horse Power 90 Nom. Horse Power as per Rule 18.6 Total Capacity of Generators 55 Kilowatts.

IL ENGINES, &c.—Type of Engines 3 VCRZ Vertical Solid Injection 2 or 4 stroke cycle 4 Single or double acting Single
 Maximum pressure in cylinders 700 / Diameter of cylinders 8" Length of stroke 10 3/4" No. of cylinders 3 / No. of cranks 3
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 9 1/8" Is there a bearing between each crank Yes

Revolutions per minute 600 / Flywheel dia. 3'-4" / Weight 19 cwt. Means of ignition Compression Kind of fuel used Heavy Oil
 Crank Shaft, dia. of journals as per Rule Approved 6" / Crank pin dia. 4 3/4" / Crank Webs Mid. length breadth 8" / Thickness parallel to axis _____
 as fitted _____ / Mid. length thickness 2 1/2" / shrunk / Thickness around eyehole _____
 Flywheel Shaft, diameter as per Rule Approved 6" / Intermediate Shafts, diameter as per Rule _____ / Thickness of cylinder liners 3/4"
 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

Cooling Water Pumps, No. One / Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes
 Lubricating Oil Pumps, No. and size One, geared
 Air Compressors, No. Yes / No. of stages Yes / Diameters Yes / Stroke Yes / Driven by Yes
 Scavenging Air Pumps, No. Yes / Diameter Yes / Stroke Yes / Driven by Yes

AIR RECEIVERS:—Have they been made under Survey Yes / State No. of Report or Certificate Yes
 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 _____
 Is there a drain arrangement fitted at the lowest part of each receiver Yes

High Pressure Air Receivers, No. Yes / Cubic capacity of each Yes / Internal diameter Yes / thickness Yes
 Seamless, lap welded or riveted longitudinal joint Yes / Material Yes / Range of tensile strength Yes / Working pressure by Rules Yes
Starting Air Receivers, No. Yes / Total cubic capacity Yes / Internal diameter Yes / thickness Yes
 Seamless, lap welded or riveted longitudinal joint Yes / Material Yes / Range of tensile strength Yes / Working pressure by Rules Yes

ELECTRIC GENERATORS:—Type Open, compound wound
 Pressure of supply 220 / volts. Full Load Current 250 / Amperes. Direct or Alternating Current Direct
 If alternating current system, state the periodicity Yes / Has the **Automatic Governor** been tested and found efficient when the whole 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 or shielded that they cannot be accidentally earthed, short circuited, or touched Yes / Are the lubricating arrangements of the generators as per Rule Yes
 If the generators are under 100 kw. full load rating, have the Makers supplied certificates of test Yes / and do the results comply with the requirements Yes
 If the generators are 100 kw. or over have they been built and tested under survey Yes

PLANS. Are approved plans forwarded herewith for Shafting 11. 11. 32 Receivers Yes / Separate Tanks Yes
 (If not, state date of approval)

SPARE GEAR
As per Rule requirements

Ruston & Hornsby, Limited

The foregoing is a correct description,

E. Lloyd

Manufacturer.

Oil & Gas Engines Dept



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Lloyd's Register Foundation

003333-003340-0158

Dates of Survey while building { During progress of work in shops - - } 1937 Jun 11 Jul 1 12 19 22 Aug 12 Sept 16 20 1938 Jan 13 24 Feb 10
 { During erection on board vessel - - - }
 Total No. of visits 12

Dates of Examination of principal parts—Cylinders 24-1-38 Covers 24-1-38 Pistons 24-1-38 Piston rods ✓

Connecting rods 24-1-38 Crank and Flywheel shafts 6-9-37 Intermediate shafts ✓

Crank and Flywheel shafts, Material Steel Identification Marks LLOYD'S 3335-6-9-37 AS

Intermediate shafts, Material ✓ Identification Marks ✓

Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case Yes If so, state name of vessel M.V. "Kahiki" (Gum rps 20376)

General Remarks (State quality of workmanship, opinions as to class, &c.)

This engine has been built under special survey in accordance with the Rules and approved plans.
 The workmanship and materials are good.
 Running tests have been carried out at the Maker's works with satisfactory results.
 The engine has been despatched to Glasgow for fitting on board the vessel.

1m, 5, 37.—Transfer.
 (The Surveyors are requested not to write on or below the space for Committee Minutes.)
 3800/P/IV. 8942-37/IV. 937
 Request form attached to Gum rps 20376
 The amount of Fee... charged When applied for, 19...
 Jobe in annual account
 Travelling Expenses (if any) When received, 19...

W. H. Ballin
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 20 SEP 1938
 Assigned TO ACCOMPANYING MACHINERY REPORT.

