

30 APR 1936

Del. 11.426.
No. 56485

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

Date of writing Report 30th Dec. 1935 When handed in at Local Office 30th Dec. 1935 Port of GLASGOW Received at London Office JAN 1936
 No. in Survey held at Glasgow Date, First Survey 28th January 1935 Last Survey 27th Dec. 1935
 Reg. Book. Single on the Twin Screw vessel M. V. "KANIMBLA" Tons { Gross _____ Net _____
 Built at Belfast By whom built Harland & Wolff Ltd. Yard No. 955 When built _____
 Owners The Elorath, Macbicken Ltd. Port belonging to _____
 Oil Engines made at Glasgow By whom made Harland & Wolff Ltd. Contract No. 955-1 When made 1935
 Generators made at Belfast By whom made Do. Contract No. 955 When made 1935
 No. of Sets 4 Engine Brake Horse Power 433 each Nom. Horse Power as per Rule 495 Total Capacity of Generators 1200 Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy oil: trunk type: valves injection 2 or 4 stroke cycle 4 Single or double acting Single
 Maximum pressure in cylinders 500 lb./sq. in. Diameter of cylinders 330 Inms. Length of stroke 590 Inms. No. of cylinders 6 No. of cranks 6
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 400 Inms. Is there a bearing between each crank Yes
 Revolutions per minute 270 Flywheel dia. 1900 Inms. Weight 4.9 Tons Means of ignition Compression Kind of fuel used Diesel
 Crank Shaft, dia. of journals as per Rule 190 Inms. Crank pin dia. 220 Inms. Crank Webs Mid. length breadth 288 Inms. Thickness parallel to axis Solid
as fitted 280 Inms. Mid. length thickness 115 Inms. Thickness around eye hole Forged
 Flywheel Shaft, diameter as per Rule 190 Inms. Intermediate Shafts, diameter as fitted Thickness of cylinder liners 24 & 20 Inms.
 Is a governor or other arrangement fitted to prevent racing of the engine when decelerated 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 Lagged
 Cooling Water Pumps, No. Ship's system Is the sea suction provided with an efficient strainer which can be cleared within the vessel _____
 Lubricating Oil Pumps, No. and size 1 (each) @ 6 1/2 tan/hr.
 Air Compressors, No. None No. of stages _____ Diameters _____ Stroke _____ Driven by _____
 Scavenging Air Pumps, No. None Diameter _____ Stroke _____ Driven by _____

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule

Can 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. Belfast Report on each Drain Engines Internal diameter _____ thickness _____
 Seamless, lap welded or riveted longitudinal joint _____ Material _____ Range of tensile strength _____ Working pressure by Rules _____
 Starting Air Receivers, No. _____ Total cubic capacity _____ Internal diameter _____ thickness _____
 Seamless, lap welded or riveted longitudinal joint _____ Material _____ Range of tensile strength _____ Working pressure by Rules _____

ELECTRIC GENERATORS:—Type Harland & Wolff: Open type
 Pressure of supply 225 volts. Load 1340 Amperes. Direct or Alternating Current Direct
 If alternating current system, state frequency of periods per second _____
 Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes
 Generators, do they comply with the requirements regarding rating Yes are they compound wound Yes
 are they over compounded 5 per cent. Yes , if not compound wound state distance between each generator _____
 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

PLANS. Are approved plans forwarded herewith for Shafting Yes Receivers Del. Rpt. Separate Tanks Del. Rpt.
 SPARE GEAR As per Attached List — J. Sheets.

The foregoing is a correct description.
 For HARLAND AND WOLFF, LIMITED.

Wm. J. Wright.

Manufacturer.

Finneston Secretary

Dates of Survey while building
 During progress of work in shops - 1935 Jan: 28 Feb: 1-14 Mar: 1-11-19 22-27 Apr: 9-12-16-19-24 May: 3-7-16-27-30
 During erection on board vessel - June: 5-17-21 July: 1-5-23-24-26 Aug: 22-28 Sep: 6-13-17 Oct: 1-7 Nov: 29 Dec: 11
 Total No. of visits 39 17-18-19-27

Dates of Examination of principal parts - Cylinders 28-8-35 Covers 19-4-35 Pistons 26-7-35 Piston rods
 Connecting rods 7-10-35 Crank and Flywheel shafts 5-7-35 Intermediate shaft
 Crank and Flywheel shaft, Material Steel Identification Mark 24070's
2466, 2466
2453, 2508
S. P. B. Intermediate shafts, Material Identification Marks

Is this machinery duplicate of a previous case Yes If so, state name of vessel M.V. "WAIWERA"

General Remarks (State quality of workmanship, opinions as to class, etc.) These four auxiliary engines have been
built under special survey in accordance with the Society's Rules &
the approved plans. The materials & workmanship are good. Together
with the generators they have been examined under full power
on the Works test bed, the governors have been set & tested
& all found satisfactory. Engines & generators have been
forwarded to Belfast & fitted in the vessel.

30/12/35. These engines have been efficiently installed in the vessel and tried out
 under full working conditions with satisfactory results. The main generators
 were constructed under survey and the electrical installations tested and tried out
 satisfactorily.
Charles J. Hunter

Im. 128-Transfer.
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee ... £ 49: 10/- When applied for, 31 DEC 1935
 Travelling Expenses (if any) £ - When received, 16-1-1936

Committee's Minute GLASGOW 31 DEC 1935
 Assigned TRANSMIT TO LONDON

J. D. Boyle
 Surveyor to Lloyd's Register of Shipping.

FEB 15 MAY 1936
Bel J.E. 11726

Rpt. 13.
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