

# AUXILIARY REPORT ON OIL ENGINE ~~ELECTRIC GENERATOR SETS.~~

No. 7933

Received at London Office

30 NOV 1933

t. 4c.

Date of writing Report 24<sup>th</sup> Nov 1933 When handed in at Local Office 29<sup>th</sup> Nov 1933 Port of MANCHESTER

No. in Survey held at ALTRINCHAM in MANCHESTER Date, First Survey 3-10-33 Last Survey 17-11-1933  
No. of Visits 2

on the <sup>Single</sup> ~~Triple~~ Screw vessel

M/S "Acuity"

Tons { Gross  
Net

built at Yarmouth  
Greenock  
Owners Frederick T Overard & Son Ltd

By whom built Yellow. (Eng 3095)  
Geo. Brown (Eng 3101)

Yard No. 333 185 When built 1933

Port belonging to London

Engines made at ALTRINCHAM  
MANCHESTER

By whom made Messrs Russell, Newbury & Co

ENGINE 3095  
Contract No. 3101 When made 1933

Generators made at

By whom made

Contract No. When made

of Sets Two Engine Brake Horse Power 27 (each) Nom. Horse Power as per Rule 5 (each) Total Capacity of Generators Kilowatts.

ENGINES, &c. Type of Engines Vertical, Solid Injection, Oil starting by 2 or 4 stroke cycle 4 Single or double acting, Single

Maximum pressure in cylinders 900 lbs Diameter of cylinders 4 1/8 Length of stroke 6 No. of cylinders 3 each eng. No. of cranks 3

of bearings, adjacent to the Crank, measured from inner edge to inner edge 4 3/4 Is there a bearing between each crank Yes

Revolutions per minute 1000 Flywheel dia. 25 Weight 2 1/2 cwt. Means of ignition Compression Kind of fuel used Heavy Oil

Crank Shaft, dia. of journals as per Rule 2.3 as fitted 2 3/8 Crank pin dia. 2 3/8 Crank Webs Mid. length breadth 2 1/4 Thickness parallel to axis Solid  
Mid. length thickness 1 5/16 shrunk Thickness around eyehole 3/8

Wheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 3/8

governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Fuel

the cylinders fitted with safety valves No Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

Working Water Pumps, No. One each engine Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size One, Rotary gear type, on each engine

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

Exhausting Air Pumps, No. Diameter Stroke Driven by

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

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

Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

Working 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

Pressure of supply volts Load Amperes. Direct or Alternating Current

Is an 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

Generators, do they comply with the requirements regarding rating are they compound wound

Are they over compounded 5 per cent. if not compound wound state distance between each generator

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

PLANS. Are approved plans forwarded herewith for Shafting Receivers Separate Tanks

SHAFTING. Are approved plans forwarded herewith for Shafting (If not, state date of approval)

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The foregoing is a correct description,

Messrs. RUSSELL, NEWBURY & Co.

Manufacturer.

J. Russell



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Foundation

004007-004018-0032



Dates of Survey while building

During progress of work in shops - - )  
 During erection on board vessel - - - )  
 Total No. of visits

3-10-33, and 17-11-33.

Dates of Examination of principal parts—Cylinders 3-10-33 Covers 3-10-33 Pistons 3-10-33 Piston rods ✓  
 Connecting rods 3-10-33 Crank and Flywheel shaft 3-10-33 Intermediate shaft ✓  
 Crank and Flywheel shaft, Material *Mild Steel* Identification Mark *N° 3103, 3106 & 3107* Intermediate shafts, Material ✓ Identification Marks ✓  
 Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *See Mech 1<sup>st</sup> Entry Report N° 4853*

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

*These auxiliary engines, Messrs Russell Newbery's type 'D3' have been built under special survey and the materials stated in accordance with the Rules. The materials so far as can be seen are sound and the workmanship is good.  
 The engines have been satisfactorily tested under full load conditions in the shop.  
 These engines have been built to the order of Messrs Newbery Diesel Co. Ltd. and are to be used for engine room auxiliaries.*

*Engine N° 3095 fitted in Yellow Yard N° 333. 2/3.*

*Engine N° 3101. This engine has been fitted to (direct coupled) Lawrence Scott electric generator N° 62519. 110 V d.c. 127 amps. 14 KW. - prolongation of generator shaft drives a general service pump through clutch & gearing also the auxiliary on compressor through a friction clutch. The set has now been dispatched to Greenock for fitting to Geo Brown N185  
*G.F.C. 9.1.34.**

*J.F. Campbell & self.*

*George Cameron*  
 Surveyor to Lloyd's Register of Shipping.

The amount of Fee ... £ 8 - : 8 - :  
 Travelling Expenses (if any) £ : :  
 When applied for, 29<sup>th</sup> Nov 1933  
 When received, 23<sup>rd</sup> Dec 1933

Committee's Minute GLASGOW 13 FEB 1934

Assigned *F.L.M.C. 2.34*  
*on G.R. Rpt 19703*



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