

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

No. 8085

Received at London Office

21 JUL 1934

Date of writing Report 20<sup>th</sup> July 1934 When handed in at Local Office 20<sup>th</sup> July 1934 Port of MANCHESTERDate, First Survey 23<sup>rd</sup> June 1934 Last Survey 20<sup>th</sup> July 1934

Number of Visits 3 (incl)

No. in Survey held at 206 on the <sup>Single</sup> ~~Twin~~ <sup>Triple</sup> ~~Quadruple~~ Screw vessel

"AQUEITY"

Tons { Gross 301  
Net 142.55Built at Yarmouth By whom built Yellows & Co<sup>rs</sup> Yard No. 836 When built 1934Owners Y.T. Smead & Sons<sup>rs</sup> Port belonging to LondonOil Engines made at Altrincham By whom made Russell, Newbery & Co<sup>rs</sup> Contract No. 3144 When made 1934

Generators made at By whom made Contract No. When made

No. of Sets ONE Engine Brake Horse Power 24 Nom. Horse Power as per Rule 4.71 Total Capacity of Generators Kilowatts.

Type of Engines Vertical, solid injection, cold start, 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 900 lb. Diameter of cylinders 4 1/8" Length of stroke 6" No. of cylinders 3 No. of cranks 3

Distance 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. 22" Weight 2 1/4 cwt Means of ignition Compression Kind of fuel used Heavy oil

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

Flywheel 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 decelerated Yes Means of lubrication Forced

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

Suction Water Pumps, No. One 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

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

Suctioning Air Pumps, No. Diameter Stroke Driven by

RECEIVERS:—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

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 by Rules

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

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

ELECTRIC GENERATORS:—Type

Voltage of supply volts. Load Amperes. Direct or Alternating Current

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 there 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

Are approved plans forwarded herewith for Shafting Yes Receivers Separate Tanks

Is there a spare gear spare gear but attached J.C.

The foregoing is a correct description.

per pro. RUSSELL, NEWBERRY &amp; Co.

Manufacturer.



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Lloyd's Register  
Foundation

W331 0074



During progress of work in shops - - 23-6-34, 25-6-34, 20-7-34 (incl)  
Dates of Survey while building { During erection on board vessel - - 27-Nov. 1st Dec 1934.  
Total No. of visits

Dates of Examination of principal parts - Cylinders 23-6-34 Covers 25-6-34 Pistons 23-6-34 Piston rods ✓  
Connecting rods 23-6-34 Crank and Flywheel shaft 23-6-34 Intermediate shaft ✓  
Crank and Flywheel shafts, Material Engt. Steel Identification Mark Lloyds No 4274 A.S.  
Intermediate shafts, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case Yes If so, state name of vessel Mch rpt No 8084  
Engine No 3143 for Messrs Newbury Diesel

General Remarks (State quality of workmanship, opinions as to class, &c.)  
This auxiliary engine, Messrs Russell Newbury's "D 3" Type has been built under special survey and the materials tested in accordance with the Rules. The materials, so far as can be seen are sound and the workmanship is good.  
This engine has been satisfactorily tested under full load in the shop.  
This engine has been built to the order of Messrs Newbury Diesel and has been forwarded to Messrs F.T. Everard & Co., Greenhithe Kent.

NOTE: No spare gear supplied

This engine has now been fitted on board. Tried under working conditions and found satisfactory  
H. Ewing.

The amount of Fee ... £ 4 : 4 :  
When applied for, 20/7/34  
Travelling Expenses (if any) £ : :  
When received, 29-11-34

G. B. Anderson.  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute  
Assigned Not for blessing committee