

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 13792

Oct-6 1937

Received at London Office

Date of writing Report 5th Oct. 1937 When handed in at Local Office 6th Oct. 1937 Port of Brith

No. in Survey held at Dunstable Date, First Survey 20th Aug. Last Survey 23rd Sept 1937
Reg. Book. Number of Visits 2

on the Single Twin Triple Quadruple Screw vessel Coxworth Tons 1700
Gross
Net

Built at Dunstable By whom built Coxworth Yard No. 1700 When built 1937

Owners Coxworth Port belonging to Coxworth

Oil Engines made at Dunstable By whom made R.A. Lister & Co. Contract No. M 1110 When made 1937
Engine No. 60/794 (10)

Generators made at Dunstable By whom made Mawdsleys Contract No. 1005/612 When made 1937

No. of Sets one Engine Brake Horse Power 27 Nom. Horse Power as per Rule 27 Total Capacity of Generators 12 Kilowatts.

OIL ENGINES, &c.—Type of Engines 4 cc. S.A. airless injection 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 750 lb./sq. in. Diameter of cylinders 4 1/2" Length of stroke 5 1/2" No. of cylinders 3 No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6 1/4" Is there a bearing between each crank Yes

Revolutions per minute 1000 Flywheel dia. 26" Weight 294 lbs. Means of ignition Compuign Kind of fuel used Diesel

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

Flywheel Shaft, diameter 3" as per Rule Approved Intermediate Shafts, diameter 3" as per Rule Approved Thickness of cylinder liners .31"
as fitted 3" as fitted 3"

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 Yes

Cooling Water Pumps, No. One plunger type Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size One

Air Compressors, No. 39949 No. of stages two Diameters 4 1/2" 1 5/8" Stroke 3 3/4" Driven by oil engine

Scavenging Air Pumps, No. one Diameter 3" Stroke 3" Driven by oil engine

AIR RECEIVERS:—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 brush

Is there a drain arrangement fitted at the lowest part of each receiver Yes

High Pressure Air Receivers, No. one Cubic capacity of each 100 Internal diameter 12" thickness 1/2"

Seamless, lap welded or riveted longitudinal joint Seamless Material steel Range of tensile strength 50,000 Working pressure by Rules 100

Starting Air Receivers, No. one Total cubic capacity 100 Internal diameter 12" thickness 1/2"

Seamless, lap welded or riveted longitudinal joint Seamless Material steel Range of tensile strength 50,000 Working pressure by Rules 100

ELECTRIC GENERATORS:—Type D.C. Compound wound drip proof

Pressure of supply 220 volts. Load 54.5 Amperes. Direct or Alternating Current Direct

If alternating current system, state frequency of periods per second 50

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 1/2"

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 No Receivers Yes Separate Tanks Yes
(If not, state date of approval)

SPARE GEAR Yes

The foregoing is a correct description,

Per. pro. R.A. Lister (Marine Sales Dept.) Manufacturer.



© 2020
Lloyd's Register
Foundation

Dates of Survey while building: During progress of work in shops - 20/8/37, 23/9/37. During erection on board vessel - ✓. Total No. of visits: Two.

Dates of Examination of principal parts: Cylinders 20/8/37, Covers 20/8/37, Pistons 20/8/37, Piston rods ✓, Connecting rods 20/8/37, Crank and Flywheel shaft 20/8/37, Intermediate shaft ✓.

Crank and Flywheel shafts, Material: Steel. Identification Mark: 7860. ENGINE "LLOYDS TEST M 655 2M 23/9/37". Intermediate shafts, Material: ✓. Identification Marks: "LLOYDS TEST 120 x 700 16 1/2" R.R. 23/7/37".

Is this machinery duplicate of a previous case? No. If so, state name of vessel: ✓.

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

All parts of this engine have been examined before being assembled. Found satisfactory.

The engine direct coupled to the generator & shafted coupled to the air compressor was tested on the steel bed under full load & overload conditions with satisfactory results.

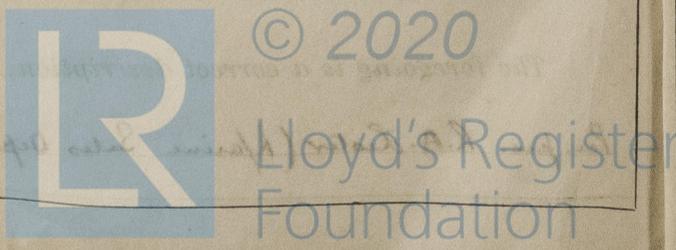
This generating-compressor set is stated to be for Messrs Goole Shipbuilding Co's Yard No 330.

[Faint handwritten notes and bleed-through from the reverse side of the page.]

The amount of Fee ... £ 3. 3. 0. Travelling Expenses (if any) £ 11. 6. When applied for, 5. 2. 19. 37. When received, 27. 6. 19. 37.

E. Marlborough
Surveyor to Lloyd's Register of Shipping.

Committee's Minute: FRI. 8 APR 1938. Assigned: See Book J.E. 487/13.



Im. 6.31 - Transfer. (The Surveyors are requested not to write on or below the space for Committee Minutes.)