

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

28 OCT 1936

No. 103053

Received at London Office 8 JUN 1936

Date of writing Report 6-6-36 When handed in at Local Office 8 JUN 1936 Port of Ipswich

No. in Survey held at Colchester Date, First Survey 26-2-36 Last Survey 3-6-1936

Reg. Book. Number of Visits 14

Single on the Twin Triple Quadruple Screw vessel M.V. 'DORSET COAST' Tons { Gross 646 Net 254

Built at Ardrossan By whom built Ardrossan Dockyard Ltd. Yard No. 363. When built 1936.

Owners Coast Lines Ltd. Port belonging to Liverpool

Oil Engines made at Colchester By whom made Danny Poxman & Co. (Colchester) Ltd. Contract No. 678/9/10 When made 1936.

Generators made at Liverpool By whom made Campbell & Shumwood Ltd. Contract No. 10431/2/3 When made 1936.

No. of Sets 3 Engine Brake Horse Power 60 TOTAL 180 Nom. Horse Power as per Rule 51. Total Capacity of Generators 120 Kilowatts. (each 40 KW.)

OIL ENGINES, &c. Type of Engines Heavy Oil 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 700 lbf/sq. in. Diameter of cylinders 4 5/8" Length of stroke 5 7/8" No. of cylinders 6 No. of cranks 6

M.I.P. 120 lbf/sq. in. Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 5 1/8" Is there a bearing between each crank Yes

Revolutions per minute 1000 Flywheel dia. 24" Weight 265 lb. Means of ignition Compression Kind of fuel used Diesel

Crank Shaft, dia. of journals as per Rule 3 1/8" as fitted 3 1/8" Crank pin dia. 2 7/8" Crank Webs Mid. length breadth 3 3/4" Mid. length thickness 1 3/8" Thickness parallel to axis shrank Thickness around eyehole

Flywheel Shaft, diameter as per Rule 5 1/8" as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 1/8"

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 Lagged.

Cooling Water Pumps, No. 6 Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 6 one geared 5 1/8" suction & delivery.

Air Compressors, No. 1 No. of stages 1 Diameters 1 Stroke 1 Driven by 1

Scavenging Air Pumps, No. 1 Diameter 1 Stroke 1 Driven by 1

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. Cubic capacity of each 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 6 pm protected

Pressure of supply 220 volts. Load 182 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

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 27-1-36.

(If not, state date of approval)

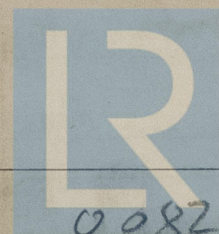
Receivers

Separate Tanks

SPARE GEAR

The foregoing is a correct description,
DAVEY, PAXMAN & CO. (Colchester) Limited

Manufacturer.



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Lloyd's Register

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Dates of Survey while building { During progress of work in shops - 26.2.36. 27.2.36. 20.3.36. 25.3.36. 27.3.36. 31.3.36. 6.4.36. 15.4.36. 22.4.36. 28.4.36.
 { During erection on board vessel - 4.5.36. 18.5.36. 29.5.36. 3.6.36.
 Total No. of visits 14.

Dates of Examination of principal parts—Cylinders 27.2.36. 25.3.36. 27.3.36. 31.3.36. 6.4.36. 15.4.36. 22.4.36. 28.4.36. Covers 6.4.36. 22.4.36. 15.4.36. 25.4.36. Pistons 28.4.36. Piston rods 2.
 Connecting rods 28.4.36. Crank and Flywheel shaft 31.3.36. Intermediate shaft
 Crank and Flywheel shafts, Material Steel Identification Mark LLOYDS { 678 = N° 6465 } S.R.C. 16.3.36
 Intermediate shafts, Material Identification Marks { 679 = N° 6474 }
 { 680 = N° 6464 }

Is this machinery duplicate of a previous case *No* If so, state name of vessel *Thames. Ardrossan Dockyard Ltd 1936*

General Remarks (State quality of workmanship, opinions as to class, &c.)
The engines have been constructed under Special Survey in accordance with the approved plan & Rule requirements. The materials & workmanship are sound & of good description. The engines with generators have been examined under full load conditions for a period of six hours & the governors have been tested & found efficient. The sets have been dispatched to Ardrossan to be fitted into a Classed vessel.

The Surveyors are requested not to write on or below the space for Committee Minutes.

The amount of Fee ... £ 15 : 15 :
 Travelling Expenses (if any) £ 2-0-6
 When applied for, - 8 JUN 1936
 When received, 28.7.36
per L. W.

Committee's Minute GLASGOW 27 OCT 1936
 Assigned See Glasgow Report No. 57496

J. R. Bell
 Surveyor to Lloyd's Register of Shipping.