

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 103120A

Date of writing Report 20-6-1936 when handed in at Local Office 24 JUN 1936 Port of Ipswich Received at London Office 24 JUN 1936 5 AUG 1936

No. in Survey held at Colchester Date, First Survey 31-3-36 Last Survey 11-6-1936 Reg. Book. Number of Visits Five

on the Single Twin Triple Quadruple Screw vessel JOLLY GIRLS Tons Gross Net

Built at Middlesbrough By whom built Smith's Dock Co. Ltd. Yard No. 995. When built 1936. Owners Port belonging to

Oil Engines made at Colchester By whom made Dewey Poxman & Co. (Colchester) Ltd. Contract No. 726. When made 1936. Generators made at Norwich By whom made Lawrence Scott & Electrostatic Ltd. Contract No. 114027 When made 1936.

No. of Sets one Engine Brake Horse Power 20 Nom. Horse Power as per Rule 6 Total Capacity of Generators 10 Kilowatts.

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

Maximum pressure in cylinders 700 lb. Diameter of cylinders 4 5/8" Length of stroke 5 7/8" No. of cylinders 2 No. of cranks 2

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 12 5/8" Is there a bearing between each crank No

Revolutions per minute 1000 Flywheel dia. 28" Weight 500 lb. Means of ignition Compression Kind of fuel used Diesel

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

Flywheel Shaft, diameter as per Rule 3 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 No 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 Lagged.

Cooling 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 found 5/8" suction & delivery.

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

Scavenging Air Pumps, No. 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. 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 Enclosed ventilated

Pressure of supply 110 volts. Load 91 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 No

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 24-3-36. Receivers Separate Tanks

SPARE GEAR

The foregoing is a correct description, for and on behalf of DAVEY, PAXMAN & CO. (Colchester) Limited

M. Andrews DIRECTOR



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W987-0297

Dates of Survey while building: During progress of work in shops - - 31-3-36. 11-5-36. 18-5-36. 3-6-36. 11-6-36.
 During erection on board vessel - - -
 Total No. of visits - - - *Five*

Dates of Examination of principal parts—Cylinders 11-5-36 Covers 11-5-36 Pistons 18-5-36 Piston rods —
 Connecting rods 18-5-36 Crank and Flywheel shaft 18-5-36 Intermediate shaft —

Crank and Flywheel shafts, Material *Steel* Identification Mark *LLOYDS NO 6535. 20-4-36. M.A.S.*
 Intermediate shafts, Material *✓* Identification Marks *✓*

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. *The materials & workmanship are sound.*)
The engine has been constructed under Special Survey in accordance with the approved plans & Rule requirements and tested under full load conditions with satisfactory results. The governor has been tested & found efficient. The engine has been dispatched to Wicklesborough where it is to be fitted on board a Classed vessel.

This engine securely fitted aboard and tested under working conditions with satisfactory results.

P. J. McA.
Sub. 1.8.36

The amount of Fee ... £ *5:50* When applied for, *29 JUN 1936*
 Travelling Expenses (if any) £ *: 8* When received, *28.7.1936*

A. J. Bill
 Surveyor to Lloyd's Register of Shipping.

TUE. 1 SEP 1936

Committee's Minute

Assigned

See Ind. 36. 15767



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Im. 6.31—Transfer.
 (The Surveyor is requested not to write on or below the space for Committee Minute.)