

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 101260

-5 JUN 1935

Received at London Office 5 MAR 1935

Date of writing Report 19-3-35 When handed in at Local Office 25 MAR 1935 Port of Ipswich

No. in Survey held at Colchester Date, First Survey 10-12-34 Last Survey 18-3-1935 Number of Visits 5

30-11-34
14-12-35

on the Single } Screw vessel M.V. PACIFIC COAST Tons { Gross 1210
Twin }
Triple }
Quadruple }

Built at A. Crossan By whom built A. Crossan Dockyard Ltd. Yard No. 357 When built 1935.

Oil Engines made at Colchester By whom made Davy Paxman (Colchester) Ltd Contract No. 18422 When made 1935.

Generators made at Liverpool By whom made Campbell Isherwood Contract No. 8662 When made 1935.

No. of Sets one Engine Brake Horse Power 75 Nom. Horse Power as per Rule 12 Total Capacity of Generators 45 Kilowatts.

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

Maximum pressure in cylinders 730 lb. Diameter of cylinders 6 1/2" Length of stroke 10" No. of cylinders 3 No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 7 1/8" Is there a bearing between each crank No

Revolutions per minute 750 Flywheel dia. 2-10" Weight 10 1/2 cwt. Means of ignition Compression Kind of fuel used Diesel

Crank Shaft, dia. of journals as per Rule 4 1/4" app. Crank pin dia. 4 1/4" Crank Webs Mid. length breadth 6" Thickness parallel to axis

Flywheel Shaft, diameter as per Rule 4 1/4" app. Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 9/16"

Is a governor or other arrangement fitted to prevent racing of the engine when decoupled 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

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 geared, 3/4" 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 Open Pressure of supply 220 volts. Load 204 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 No are they compound wound No

are they over compounded 5 per cent. No, 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 No

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 No

PLANS. Are approved plans forwarded herewith for Shafting duplicate app. 2-6-35. Receivers Separate Tanks

PARE GEAR

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

Manufacturer.



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Foundation

W350-0043

27/3/35

Dates of Survey while building { During progress of work in shops - - } 10-12-34, 20-12-34, 11-1-35, 5-2-35, 12-3-35, 18-5-35.
 { During erection on board vessel - - - }
 Total No. of visits

Dates of Examination of principal parts—Cylinders 20-12-35 Covers 11-1-35 Pistons 11-1-35 Piston rods ✓

Connecting rods 11-1-35 Crank and Flywheel shaft 11-1-35 Intermediate shaft ✓

Crank and Flywheel shafts, Material Steel Identification Mark LLOYDS. N° 1996. CHAR 31-12-34

Intermediate shafts, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case ✓ If so, state name of vessel ✓

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

The engine has been constructed under Special Survey in accordance with the Rule requirements. The materials & workmanship are sound and of good description. The governor set has been tried under full load conditions, the governor tested & found satisfactory. The machine will be despatched to Ochrossan to be fitted into a Classed vessel.

1m.6.31—Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute)

The amount of Fee	£ See: 101.259	When applied for,	19
Travelling Expenses (if any)	See: 101.259	When received,	19

J. J. Smith
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 4 JUN 1935

Assigned SEE ACCOMPANYING MACHINERY REPORT

Sl. 55801

