

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 101,259

Received at London Office 25 MAR 1935 -5 JUN 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
Reg. Book. Number of Visits SIX

on the Single Screw vessel M.V. PACIFIC COAST Tons { Gross 1210
Triple Net 664
Quadruple

Built at Ardrossan By whom built Ardrossan Dockyard Ltd. Yard No 557 When built 1935
Port belonging to

Owners

Oil Engines made at Colchester By whom made Davey, Pagman & Co. (Colchester) Ltd. Contract No. 18422/3 When made 1935

Generators made at Liverpool By whom made Campbell Escherwood Ltd. Contract No. 9597 When made 1935

No. of Sets 2 Engine Brake Horse Power 100 Nom. Horse Power as per Rule 16 Total Capacity of Generators 60 Kilowatts.

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

Maximum pressure in cylinders 750 lb. Diameter of cylinders 6 1/2" Length of stroke 10" No. of cylinders 4 No. of cranks 4

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 7 1/8" Is there a bearing between each crank Yes

Revolutions per minute 750 Flywheel dia. 2'-10" Weight 2 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 shrunk
as fitted 4 1/4" Mid. length thickness 2" Thickness around eyehole Yes

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

Is a governor or other arrangement fitted to prevent racing of the engine when detached 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 Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

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. One Total cubic capacity 7.5 cub. ft. Internal diameter 18" thickness 3/8"

Seamless, lap welded or riveted longitudinal joint Riveted Material Steel Range of tensile strength 26/30, 28/32 lb. Working pressure by Rules 350 lb.

ELECTRIC GENERATORS:—Type Open

Pressure of supply 220 volts. Load 273 Amperes. Direct or Alternating Current Direct.

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

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

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 Duplicate approved. Receivers 13-11-34. Separate Tanks Yes
(If not, state date of approval) 2-6-33.

SPARE GEAR

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

Manufacturer.



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Lloyd's Register Foundation

W350-0042

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, 19-3-35
 { During erection on board vessel - - - }
 Total No. of visits

Dates of Examination of principal parts—Cylinders 20-12-34. Covers 11-1-35. Pistons 11-1-35. Piston rods ✓

Connecting rods 11-1-35. Crank and Flywheel shaft 20-12-34, 11-1-35. Intermediate shaft ✓

Crank and Flywheel shafts, Material Steel. Identification Mark 18422 LLOYDS. N°5508 SW. 30-11-34

Intermediate shafts, Material ✓. Identification Marks 18423 LLOYDS. N°5550 M.A.B. 14-12-34

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 engines have been constructed under Special Survey in accordance with the Rule requirements. The materials & workmanship are sound & of good description. The governor sets have been tried under full load conditions & the governors tested with satisfactory results. The machines will be dispatched to Ardrossan to be fitted into a Classed vessel. The Air Receiver has been constructed under Special Survey in accordance with the approved plan & Rule requirements.

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

See also for No 101,260
 The amount of Fee ... £ 15 : 15 0
 Air Recum 2 2
 Travelling Expenses (if any) £ : 16/6
 When applied for, 25 MAR 1935
 When received, 4/4/1935 (London)

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

Committee's Minute GLASGOW 4 JUN 1935
 Assigned SEE ACCOMPANYING MACHINERY REPORT.
 Obj. No. 55801.

