

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 101260

-5 JUN 1935

Received at London Office 25 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
 Reg. Book. Number of Visits 5x.

on the Single
 Twin
 Triple
 Quadruple
 Screw vessel M.V. PACIFIC COAST

Tons { Gross 1210
 Net 664

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

Owners Port belonging to

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 In

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
 as fitted 4 1/4" Mid. length thickness 2" shrunk Thickness around eye-hole

Flywheel Shaft, diameter as per Rule 4 1/4" app. Intermediate Shafts, diameter as per Rule 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 decoupled In Means of lubrication Forced

Are the cylinders fitted with safety valves In 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 In

Generators, do they comply with the requirements regarding rating In are they compound wound In

are they over compounded 5 per cent. In, 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 In

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 In

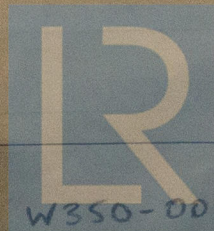
PLANS. Are approved plans forwarded herewith for Shafting duplicate app. 2-6-35. Receivers Separate Tanks

PARE GEAR

The foregoing is a correct description,

DAVEY, PAXMAN & CO (Colchester) Limited.

Manufacturer.



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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 20-12-34 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 dispatched to Ochrosan 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 Minutes.)

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

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

J. J. S. M.
 Surveyor to Lloyd's Register of Shipping.



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