

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS. 1932

No. 52683

-6 JUL 1932

Received at London Office

Survey held at Glasgow Date, First Survey 22. 10. 31 Last Survey 31. 6. 1932
 Port of Glasgow Number of Visits 14

on the Single Twin Triple Quadruple Screw vessel M.V. "Pacific Ranger" Tons { Gross 6866. Net 4186.
Copenhagen. By whom built Art. Burmeister & Wain Yard No. When built 1929. 9.
Turner & Witherby & Co Ltd. Port belonging to London.

ines made at Glasgow By whom made British Auxiliaries Ltd. Contract No. 145 When made 1931.
 ors made at Sturdee & Co Ltd. By whom made Sturdee & Co Ltd. Contract No. When made
 Sets / Engine Brake Horse Power 128. Nom. Horse Power as per Rule 37. Total Capacity of Generators 85. Kilowatts.

GINES, &c. Type of Engines Atlas Polar Diesel 2 or 4 stroke cycle 2 Single or double acting Single
 pressure in cylinders 480 lbs Diameter of cylinders 290 7/8 Length of stroke 410 7/8 No. of cylinders 2 No. of cranks 2
 bearings, adjacent to the Crank, measured from inner edge to inner edge 98 1/2 between Roller Bearings Is there a bearing between each crank No.
 ns per minute 300 Flywheel dia. 1400 7/8 Weight of 18 1/2 lbs. Means of ignition Comp. Kind of fuel used Diesel oil.
 shaft, dia. of journals as per Rule 186 7/8 Crank pin dia. 195 7/8 Crank Webs Mid. length breadth 260 7/8 Thickness parallel to axis shrunk
as fitted 200 Mid. length thickness 120 Thickness around eye hole ✓
 Shaft, diameter as per Rule 186 7/8 Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 30 7/8
as fitted 185 as fitted

rior or other arrangement fitted to prevent racing of the engine when declutched Y/a. Means of lubrication Mechanical feed oil box
 cylinders fitted with safety valves Y/a. Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Lagged.
 Water Pumps, No. one. Is the sea suction provided with an efficient strainer which can be cleared within the vessel ✓

ting Oil Pumps, No. and size None fitted.
 mpressors, No. None fitted No. of stages 1 Diameters ✓ Stroke ✓ Driven by ✓
 ing Air Pumps, No. Two Slipped Piston Diameter 370 7/8 Stroke 440 7/8 Driven by Eng. Pistons

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Y/a
 internal surfaces of the receivers be examined Y/a. What means are provided for cleaning their inner surfaces 120 7/8 opening at end.

drain arrangement fitted at the lowest part of each receiver Y/a
 Starting Pressure Air Receivers, No. 1 Cubic capacity of each 4.0 ft Internal diameter 13.5" thickness .492"
 lap welded or riveted longitudinal joint Seamless Material S Range of tensile strength 25/32 Tms Working pressure by Rules 995 lbs

Air Receivers, No. ✓ Total cubic capacity ✓ Internal diameter ✓ thickness ✓
 lap welded or riveted longitudinal joint ✓ Material ✓ Range of tensile strength ✓ Working pressure by Rules ✓

RIC GENERATORS:—Type Open Compound wound.
 e of supply 220 volts. Load 386. Amperes. Direct or Alternating Current Direct. 85 KW

ding current system, state frequency of periods per second —
 Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Y/a.

ors, do they comply with the requirements regarding rating Y/a. are they compound wound Y/a.
 ver compound 5 per cent. Y/a. if not compound wound state distance between each generator —

stable regulating resistance fitted in series with each shunt field — Are all terminals accessible, clearly marked, and furnished with sockets Y/a
 o spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Y/a Are the lubricating arrangements of the generators as per Rule Y/a

Are approved plans forwarded herewith for Shafting 29.10.31. Receivers 22.10.31. Separate Tanks —
 (If not, state date of approval)

GEAR 1 set of valves for 1 cylinder, 1 set of piston rings, 1 quidger pin, 2 crank pin bearing bolts
 1 length of fuel oil piping, 1 length of starting air piping, complete fuel pump

he foregoing is a correct description.
 For BRITISH AUXILIARIES, LIMITED,

John Rogers
 GENERAL MANAGER,

Manufacturer.
23.12.31



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Lloyd's Register
 Foundation

Dates of Survey while building { During progress of work in shops - - 1931 Oct: 22 Nov: 5 16 20 23 Dec 3 7 (1932) Feb: 19 22 Mar: 17 May 5
 { During erection on board vessel - - June: 21
 Total No. of visits 14

Dates of Examination of principal parts—Cylinders 20.11.31 Covers — Pistons 5.11.31 Piston rods —

Connecting rods 5.11.31 Crank and Flywheel shaft 19.10.31 (FR) Intermediate shaft —

Crank and Flywheel shaft, Material *Forged Steel* Identification Mark 2091-J.F.C. Intermediate shafts, Material — Identification Marks —

Is this machinery duplicate of a previous case *Yes*. If so, state name of vessel *"Pacific Pioneer"*

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

This generator has been built under Special Survey and in accordance with the Rules. The materials & workmanship are good. On completion it has been examined under working conditions and found satisfactory.

This generator will be eligible, in my opinion, for inclusion in the Classification and Rating of L.M.C. of this vessel when it has been officially secured in position on board.

This Auxiliary engine has now been properly fitted on board and tried under working conditions with satisfactory results.

A.L.
11/7/32

1m, 7, 28—Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee ... £ 3 : 14 :
Travelling Expenses (if any) £ :

When applied for, 4 JUL 1932
When received, 16 JUL 1932

Robert Stewart Doyle
Surveyor to Lloyd's Register of Shipping

Committee's Minute GLASGOW 5-JUL-1932

Assigned *As now.*