

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS. No. 303.

Received at London Office

JAN 27 1939

Date of writing Report 13.1. 1939 When handed in at Local Office 20.1. 1939 Port of Düsseldorf

No. in Survey held at Cologne Date, First Survey 24.11.37 Last Survey 13.1. 1939  
Reg. Book. Number of Visits 7

on the ~~Twin~~ <sup>Single</sup> Screw vessel  
~~Triple~~  
~~Quadruple~~

"PETRO"

Tons { Gross  
Net

Built at Port Glasgow By whom built Ferguson Brothers Yard No. 341 When built

Owners Port belonging to

Oil Engines made at Cologne By whom made Humb. Deutzmotoren A.G. ~~XXXXX~~ No. 569082/83 When made 1939.

Generators made at By whom made Contract No. When made

No. ~~XXXX~~ aux. Engine Brake Horse Power 25 Nom. Horse Power as per Rule 7.2 Total Capacity of Generators Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy oil engines OMZ 117 2 or 4 stroke cycle 2 Single or double acting single

Maximum pressure in cylinders 50 kg/cm<sup>2</sup> Diameter of cylinders 125mm Length of stroke 170mm No. of cylinders two No. of cranks two

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 178mm Is there a bearing between each crank yes

Revolutions per minute 750 Flywheel dia. 600mm Weight 178 kg Means of ignition sol. inj. Kind of fuel used on test bed gas oil

Crank Shaft, dia. of journals as per Rule 70mm Crank pin dia. 75mm Crank Webs Mid. length breadth 102mm Thickness parallel to axis  
as fitted 70mm Mid. length thickness 45mm Thickness around eye hole

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners  
as fitted

Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication forced

Are the cylinders fitted with safety valves yes Are the exhaust pipes ~~XXXXXX~~ water cooled or lagged with non-conducting material no

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 1 tooth wheel pump capacity 522 lts./h. at 1275 r.p.m.

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

Scavenging Air Pumps, No. two Diameter 220mm Stroke 87mm Driven by the engine itself

AIR RECEIVERS:—Have they been made under Survey State No. of Report or Certificate

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 30 ltrs. Internal diameter 191mm thickness 6.5mm

Seamless, lap welded or riveted longitudinal joint seamless Material S.M. Steel Range of tensile strength 55-61.3 kg/mm<sup>2</sup> Working pressure by Rules 35 kg/cm<sup>2</sup>

ELECTRIC GENERATORS:—Type

Pressure of supply volts. Full Load Current Amperes. Direct or Alternating Current

If alternating current system, state the periodicity Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off

Generators, are they compounded as per rule 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

If the generators are under 100 kw. full load rating, have the Makers supplied certificates of test and do the results comply with the requirements

If the generators are 100 kw. or over have they been built and tested under survey

PLANS. Are approved plans forwarded herewith for Shafting 620580 A 19.8.37 Receivers 3436 7.7.33 Separate Tanks  
(If not, state date of approval)

SPARE GEAR as per Rules

The foregoing is a correct description,

Klöckner-

Humboldt-Deutz AG

Manufacturer.



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007825-007833-0074



24.11.-10.12.37.-6.5.-9.12.-22.12.<sup>38</sup>-12.1.-13.1.39

*Dates of Examination of principal parts*—Cylinders 9.12.-13.1. Covers 9.12.-13.1. Pistons 13.1. Piston rods  
Connecting rods 24.11.-10.12.-6.5.-22.12.-13.1. Crank and Flywheel shafts 9.12.-22.12.-13.1. Intermediate shafts  
Crank and Flywheel shafts, Material S.M.Steel Identification Marks LLOYD'S 3644 H.B.22.12.38.

*Identification marks on Air Receivers.* No. 844  
LLOYD'S TEST  
70 Atm.  
W.P. 35 Atm.  
M.B. 29.10.38.

Is this machinery duplicate of a previous case yes If so, state name of vessel Levers Pacifica Plantations, Sidney  
 General Remarks (State quality of workmanship, opinions as to class, &c.) (Düsseldorf Report No. 90)

This auxiliary engine has been constructed under special survey in accordance with the Society's Rules and Regulations as well as with the approved plan and the instructions thereto. The material used in the construction was found to be good and the workmanship satisfactory. This auxiliary engine has been tested on Makers' test bed in the presence of the undersigned under full load during 7 hours and 10 % overload during 1 hour and was found ~~was~~ working satisfactorily during these trials. After trials all working parts have been opened out for examination and were found in good condition.

The main engine is also being built by Messrs. Humboldt-Deutzmotoren A.G.

The copy of this report was forwarded to the Society's Glasgow Surveyors.

This sub has been fitted in the vessel at Port Jervis  
J. Boyle 21/6/39.

The amount of Fee ... .. £

Travelling Expenses (if any) £

When applied for,

19.....

When received,

19.....

*H. Hingemann*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

*Assigned*

TUE 27 JUN 1939

See Grk. 76 20771

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