

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 3685

Received at London Office

24 JAN 1951

Writing Report 28. 11. 1950 When handed in at Local Office

19 Port of Adelaide

by in Survey held at Pt. Adelaide

Date: First Survey 10 Aug 50 Last Survey 24 Nov 1950

Number of Visits Six

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

RANSDORP

Tons } Gross 469  
Net 189

By whom built N. V. Nederl. Dok. Maats Yard No. When built 1934

Port belonging to Sydney

Engines made at By whom made Ruston's Contract No. When made 1949

Generators made at By whom made Campbell & Sherrwood Contract No. When made

of Sets 2 Engine Brake Horse Power 40 Nom. Horse Power as per Rule Total Capacity of Generators Kilowatts.

ENGINES, &c. Type of Engines Diesel 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders Diameter of cylinders 4 1/8" Length of stroke 5 1/2" No. of cylinders 4 No. of cranks 4

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

Revolutions per minute 1200 Flywheel dia. Weight Means of ignition C.I. Kind of fuel used Distillate

Shaft, dia. of journals as per Rule 3" Crank pin. dia. 3" Crank Webs Mid. length breadth 3 3/4" Thickness parallel to axis "

as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness around eyehole "

Shaft, diameter as fitted Thickness of cylinder liners

Governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication Forced

Are the exhaust pipes and silencers water cooled or lagged with non-conducting material lagged

Water Pumps, No. Rotary Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes

Driving Oil Pumps, No. and size Gear pumps

Compressors, No. 1 No. of stages 2 Diameters 127 mm 57 mm Stroke 90 Driven by separate aux diesel engine

Driving Air Pumps, No. Diameter Stroke Driven by

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

Receiver, which can be isolated, fitted with a safety valve as per Rule yes

internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces 4" dia. opening in ends

a drain arrangement fitted at the lowest part of each receiver yes

Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

Air Receivers, No. 2 Total cubic capacity 11'6" long Internal diameter 23 3/4" thickness 1/2"

lap welded or riveted longitudinal joint Material Steel Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS: Type Campbell & Sherrwood - New

of supply 110 volts Full Load Current 272 amps Amperes Direct or Alternating Current Direct

ating current system, state the periodicity Has the Automatic Governor been tested and found as per rule when full load is suddenly thrown on and off yes

Are they compounded as per rule yes is an adjustable regulating resistance fitted in series with each

Are all terminals accessible, clearly marked, and furnished with sockets yes

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 A

Generators are under 100 kw. full load rating, have the Makers supplied certificates of test no and do the results comply with the requirements

Generators are 100 kw. or over have they been built and tested under survey

Are approved plans forwarded herewith for Shafting no Receivers Separate Tanks

(If not, state date of approval)

GEAR Spare gear supplied as per rules.

The foregoing is a correct description,

Manufacturer.



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Dates of Survey while building { During progress of work in shops - - } This vessel, previously classed with B.V. has now been surveyed for  
 { During erection on board vessel - - - } classification with L.R. 24 visits were made to survey, hull  
 Total No. of visits machinery, equipment etc

Dates of Examination of principal parts—Cylinders \_\_\_\_\_ Covers \_\_\_\_\_ Pistons \_\_\_\_\_ Piston rods \_\_\_\_\_  
 Connecting rods \_\_\_\_\_ Crank and Flywheel shafts \_\_\_\_\_ Intermediate shafts \_\_\_\_\_  
 Crank and Flywheel shafts, Material \_\_\_\_\_ Identification Marks \_\_\_\_\_  
 Intermediate shafts, Material \_\_\_\_\_ Identification Marks \_\_\_\_\_  
 Identification marks on Air Receivers 7464 8 15. 1. 43 P.D. 39 Kg.

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.)

This vessel originally operating between North Sea ports was taken over as part of reparations. In London before setting out for Australia two new Ruston aux engines, type VRH.4, were fitted (1949) with new dynamos. The engines have been opened up and examined and are in excellent condition. One engine alone is adequate for the maximum of auxiliaries, heaters & lighting. Governing is excellent and the work of installation good.  
 An additional cooling water system has been fitted to supply cooling water from the general service pump in the event of a break of the direct driven pumps

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 (The Surveyors are requested not to write on or below the space for Committee Minute.)

|                              |  |                   |
|------------------------------|--|-------------------|
| The amount of Fee            | Included in Main Engine<br>First Entry | When applied for, |
|                              |  | 19                |
| Travelling Expenses (if any) | £ : :                                  | When received,    |
|                              |  | 19                |

E. L. Hall.  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI. 23 NOV 1951**  
 Assigned See P.E. weekly report.