

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10933

Received at London Office

19 APR 1928

of writing Report 11 April 1928 When handed in at Local Office

19 Port of AMSTERDAM

in Survey held at  
Book.

AMSTERDAM

Date, First Survey 23 Nov. 1924

Last Survey April 1928

Number of Visits 5

Single  
Twin  
Triple  
Quadruple

KROMHOUT OIL ENGINE NO. 1475 (type ER-I).

Tons { Gross -  
Net -

Built at

Cleveland, Ohio

By whom built

American S.B. Co.

Yard No. -803

When built

-

Furnishers

The Sunderland Forge &amp; Engineering Co. Ltd.

Port belonging to

Sunderland

Engines made at Amsterdam

By whom made

N.V. Kromhout Motoren Fabr.

Contract No. -

When made 1928

Generators made at

Sunderland

By whom made

Sunderland Forge &amp; Eng. Co.

Contract No. -

When made 1928

No. of Sets 1

Engine Brake Horse Power 22

Nom. Horse Power as per Rule 6

Total Capacity of Generators 10

Kilowatts.

L ENGINES, &amp;c.—Type of Engines Kromhout oil engine 2 or 4 stroke cycle Single or double acting

Maximum pressure in cylinders 16 1/2 p.s.i. Diameter of cylinders 230 mm Length of stroke 240 mm No. of cylinders One No. of cranks one

Distance of bearings, adjacent to the Crank, measured from inner edge to inner edge 240 mm Is there a bearing between each crank &lt;

Revolutions per minute 440 Flywheel dia. 1100 mm Weight 600 kg Means of ignition contemplative Kind of fuel used Crude oil

Crank Shaft, dia. of journals as per Rule &lt; as fitted 25 mm Crank pin dia. 25 mm Crank Webs Mid. length breadth 120 mm Thickness parallel to axis &lt; Mid. length thickness 52 mm Thickness around eyehole 2 1/2 in

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

Is there a governor or other arrangement fitted to prevent racing of the engine when declutched &lt; Means of lubrication forced.

Are the cylinders fitted with safety valves &lt; Are the exhaust pipes and silencers water cooled or lagged with non-conducting material water coils

Cooling Water Pumps, No. One Is the sea suction provided with an efficient strainer which can be cleared within the vessel &lt;

Lubricating Oil Pumps, No. and size One

Air Compressors, No. &lt; No. of stages &lt; Diameters &lt; Stroke &lt; Driven by &lt;

Sucking Air Pumps, No. &lt; Diameter &lt; Stroke &lt; Driven by &lt;

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule &lt;

Are the internal surfaces of the receivers be examined &lt; What means are provided for cleaning their inner surfaces &lt;

Is there a drain arrangement fitted at the lowest part of each receiver &lt;

High Pressure Air Receivers, No. &lt; Cubic capacity of each &lt; Internal diameter &lt; thickness &lt;

Seamless, lap welded or riveted longitudinal joint &lt; Material &lt; Range of tensile strength &lt; Working pressure by Rules &lt;

Sucking Air Receivers, No. one Total cubic capacity 40 dm<sup>3</sup> Internal diameter 203 mm thickness 4 mm

Seamless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 28 1/2 ton Working pressure by Rules 1050 lb./sq. in

ELECTRIC GENERATORS:—Type Sundholm type

Pressure of supply 110 volts Load 90 Amperes Direct or Alternating Current Continuous

Is it an alternating current system, state frequency of periods per second &lt;

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off &lt;

Generators, do they comply with the requirements regarding rating &lt; are they compound wound &lt;

Are they over compounded 5 per cent. &lt; , if not compound wound state distance between each generator &lt;

Is there an adjustable regulating resistance fitted in series with each shunt field &lt; Are all terminals accessible, clearly marked, and furnished with sockets &lt;

Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched &lt; Are the lubricating arrangements of the generators as per Rule &lt;

PLANS. Are approved plans forwarded herewith for Shafting &lt; Receivers &lt; London Separate Tanks &lt; Office

ARE GEAR put in with rivets complete, 1 combustion chamber, 1 gudgeon pin, 1 roller plate, 3 cushion covers, 1 set of bottom end beam and bolts, 1 set of main beam, beam and bolts, beam for rapid heater, 1 fuel pump, various of lengths of tubes.

The foregoing is a correct description.  
N.V. KROMHOUT MOTOREN FABRIEK  
D. GOEDKOOP JR.

Manufacturer.



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Lloyd's Register  
Foundation

010933-010942-0180



Dates of Survey while building { During progress of work in shops - - } 1924 Nov. 21. Dec. 12. Feb. 22 March 12. April 2.  
 { During erection on board vessel - - }  
 Total No. of visits 5.

Dates of Examination of principal parts—Cylinders 22/11. 24. 12/12. 28 Covers L  
 Pistons 12/12. 12/3. 28. Piston rods L  
 Connecting rods 12/12. 12/3 Crank and Flywheel shaft 12/12. 12/3. 28 Intermediate shaft L  
 Crank and Flywheel shaft, Material Steel Identification Mark Lloyd's 1340 24. 12/12. 28 Intermediate shafts, Material L Identification Marks L

Is this machinery duplicate of a previous case Yes If so, state name of vessel Oil Engine 4369. Annul Reg. 10841.

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

The oil engine has been constructed under special survey, in accordance with the approved plans and Surveyor's letter. All motions tested as required, workmanship good. Engine tried under full working conditions on test bench and good.

H. N. Bennett.

The amount of Fee ... £ 180.-  
 Travelling Expenses (if any) £ 2.-  
 When applied for, 19...  
 When received, 19...

H. N. Bennett.  
 Surveyor to Lloyd's Register of Shipping

Committee's Minute

Assigned