

Removed 6.46 Replaced by Steam Engine.

4c.

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12234

Received at London Office

21 APR 1931

AMSTERDAM

21 OCT 1931

Port of

of writing Report 11 April 1931 When handed in at Local Office

Date, First Survey 20 November 30 Last Survey 30 March 1931

Number of Visits 4

in Survey held at AMSTERDAM

Book.

on the Single XXXXXXX KROMHOUT OIL ENGINE NO. 6007, type HS-2 M.V. "CLIONA" Tons Gross - 8375 Net - 4948

at Glasgow By whom built Harland & Wolff Ltd. Yard No. 9086 When built 1931

Anglo Saxon Petroleum Co. Ltd. Port belonging to London

Engines made at Amsterdam By whom made N.V. Kromhout Motoren Contract No. - When made 1931

Generators made at Sunderland By whom made Sunderland Forge & Eng. Co. Contract No. - When made 1930

of Sets 1 Engine Brake Horse Power 26 Nom. Horse Power as per Rule 7 Total Capacity of Generators 16 Kilowatts.

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

imum pressure in cylinders 35 1/2 atm. Diameter of cylinders 210 mm. Length of stroke 245 mm. No. of cylinders 2 No. of cranks 1

of bearings, adjacent to the Crank, measured from inner edge to inner edge 328 mm. Is there a bearing between each crank 2

utions per minute 390 Flywheel dia. 1100 mm. Weight 1180 kg. Means of ignition Comp. air Kind of fuel used Diesel oil

ank Shaft, dia. of journals as per Rule 110 mm. Crank pin dia. 110 mm. Crank Webs Mid. length breadth 150 mm. Thickness parallel to axis 150 mm.

as fitted 110 mm. Mid. length thickness 62 mm. Thickness around eye hole 12 mm.

Wheel Shaft, diameter as per Rule 4 Intermediate Shafts, diameter as per Rule 4 Thickness of cylinder liners 4

governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication forced.

the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material W. cooled.

ling Water Pumps, No. 1 Is the sea suction provided with an efficient strainer which can be cleared within the vessel 2

ricating Oil Pumps, No. and size 2 1/2 inch for cylinders and one for bearings, crankpins

Compressors, No. 2 No. of stages 2 Diameters 4 Stroke 4 Driven by 4

evenging Air Pumps, No. 2 Diameter 4 Stroke 4 Driven by 4

RECEIVERS: Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes

the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Hand tools.

here a drain arrangement fitted at the lowest part of each receiver Yes

h Pressure Air Receivers, No. 2 Cubic capacity of each 4 Internal diameter 4 thickness 4

ness, lap welded or riveted longitudinal joint 4 Material 4 Range of tensile strength 4 Working pressure by Rules 4

rting Air Receivers, No. 2 Total cubic capacity 150 Liter Internal diameter 250 mm. thickness 4 mm.

ness, lap welded or riveted longitudinal joint 4 Material Steel Range of tensile strength 29/51 tons Working pressure by Rules 46 1/2 p.s.i.

ELECTRIC GENERATORS: Type Sunderland Forge & Eng. Co.

essure of supply 110 volts. Load 145 Amperes. Direct or Alternating Current Direct

alternating current system, state frequency of periods per second 4

the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes

erators, do they comply with the requirements regarding rating Yes are they compound wound Yes

they over compounded 5 per cent. Yes, if not compound wound state distance between each generator 4

n adjustable regulating resistance fitted in series with each shunt field Yes Are all terminals accessible, clearly marked, and furnished with sockets Yes

they 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 Yes

ANS. Are approved plans forwarded herewith for Shafting 4 Receivers 4 Separate Tanks 4

ARE GEAR 1 set of piston rings, studs for cylinder covers, 1 set

bottom end bearing bolts, 1 gudgeon pin, 2 steel shots,

fuel pump complete, 2 feed jets, 1 combustion chamber,

spring, and valves for fuel pump, also for cooling pump, studs

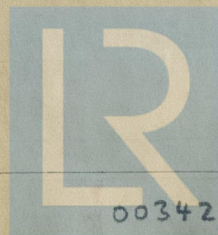
for main bearing keys, various packings.

The foregoing is a correct description,

N.V. KROMHOUT MOTOREN FABRIEK

D. Goedkoop Jr.

Manufacturer.



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Lloyd's Register

003429-003433-0026



Dates of Survey while building  
 During progress of work in shops - 4/11, 19/12, 31/12, 10/1, 13/1, 13/2, 30/3, 1931  
 During erection on board vessel - - -  
 Total No. of visits 4

Dates of Examination of principal parts - Cylinders 4/11 - 13/1 Covers 4/11 - 13/1 Pistons 4/11 - 13/1 Piston rods -  
 Connecting rods 4/11 - 10/1 Crank and Flywheel shaft 4/11 - 13/1 Intermediate shaft -

Crank and Flywheel shafts, Material *Steel* Identification Mark *Lloyd's M.K. No. 5180 30.4.*  
 Intermediate shafts, Material *Steel* Identification Marks *See above*

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *See Lloyd's M.K. No. 5180 and Rep. No. 12161.*

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

*The engine has been constructed in accordance with the Rules, Secretary's letter and approved plans.  
 All materials tested as required and workmanship good.  
 The engine has been tested under full working conditions on test bench and good.*

*The engine has been forwarded to Messrs. Harland, Wolff & Glasgow.*

Im. 9.28 - Transfer.  
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... *£180/-* : When applied for, 19  
 Travelling Expenses (if any) *£4/-* : When received, 27. 4. 1931

*D. N. Beaman*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 20 OCT 1931**  
 Assigned *See Glasgow Report No. 51840.*