

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12055

16-10-30

When handed in at Local Office

19

Port of AMSTERDAM

Received at London Office 21 OCT 1930

in Survey held at AMSTERDAM

Date, First Survey 29th March

Last Survey 9th Oct. 1930.

Book.

Number of Visits 7.

on the ~~XXXXXXX~~ KROMHOUT OIL ENGINE NO. 5836, type HS-2 M/V. Agnide TonsGross
Net

at Newcastle-on-Tyne. By whom built Hawthorn Leslie & Co. Ltd. Yard No. 548 When built 1931

ers Angle Saxon Petroleum Co. Ltd.

Port belonging to The Hague London

Engines made at Amsterdam

By whom made N.V. Kromhout Motoren Fabriek

Contract No. - When made 1930

Generators made at

By whom made Sunderland Forge & Eng. Co.

Contract No. - When made

of Sets 1 Engine Brake Horse Power 26/30 Nom. Horse Power as per Rule 8 Total Capacity of Generators 12 Kilowatts.

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

Maximum pressure in cylinders 35 1/2 lb per sq in. Diameter of cylinders 210 mm. Length of stroke 275 mm. No. of cylinders 1 No. of cranks 1

No. of bearings, adjacent to the Crank, measured from inner edge to inner edge 328 mm. Is there a bearing between each crank?

Revolutions per minute 350 Flywheel dia. 1100 mm. Weight 1180 kg. Means of ignition Air injection Kind of fuel used Solar oil

Crank 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

as fitted 110 mm. Mid. length thickness 41.5 mm. Thickness around eye hole Solar oil

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

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

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

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

Lubricating Oil Pumps, No. and size 1 for cylinders (2 feeds) and 1 for bearing, crankpin (circulation system)

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

Sucking Air Pumps, No. Diameter Stroke Driven by

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

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

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

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

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

Sucking Air Receivers, No. Total cubic capacity 200 L. Internal diameter 325 mm. thickness 8 mm.

unless, lap welded or riveted longitudinal joint Material Steel Range of tensile strength 22/51 ton. Working pressure by Rules 30 lb per sq in.

ELECTRIC GENERATORS:—Type Sunderland Forge and En. Co.

Pressure of supply 110 volts. Load 109 Amperes. Direct or Alternating Current Direct

alternating current system, state frequency of periods per second

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

Generators, 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

an 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 Security. Lts. 2. 10. 4. 30. Separate Tanks

ARE GEAR

Set of piston rings; 2 studs for cylinder cover; 1 set of bottom end bearing and
 bolts complete; 3 gudgeon pins; 3 roller plates for same; 1 fuel pump complete;
 fuel jets, 2 fuel injectors, 1 combustion chamber; delivery pipe, fuel pump;
 bearings for fuel pump, valves, 2 valves for crank case; valve for cooling pump.
 Stud for cylinder head and main bearing keys; various packings.

The foregoing is a correct description.

N.V. KROMHOUT MOTOREN FABRIEK

D. Goedkoop Jr.

Manufacturers.



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Foundation

Dates of Survey while building { During progress of work in shops - - 24/3. 11/6. 2/8. 14/8. 22/8. 12/9. 16/9. 9/10 1930. }
 { During erection on board vessel - - - }
 Total No. of visits 8.

Dates of Examination of principal parts—Cylinders 14/3-16/8. Covers 22/3-22/8. Pistons 2/8-28/8. Piston rods 2

Connecting rods 11/6-2/8. Crank and Flywheel shaft 11/6-2/8. Intermediate shaft 2

Crank and Flywheel shaft, Material Steel Identification Mark 447.75. 12.5-30. Intermediate shafts, Material 2 Identification Marks 2

Is this machinery duplicate of a previous case? If so, state name of vessel. Oil En. in No. 5802/s. (not yet reported)

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

The engine has been made in accordance with the Rules, Secretary's letter and approved plans; all materials tested as required, workmanship good; engine tried under full working conditions in test bench and good.

The engine has been forwarded to Messrs. R. W. Hawthorn
 Leslie, & Co. Ltd
 Newcastle on Tyne.

This auxiliary has now been securely fitted on board the vessel, tried under full working conditions, found satisfactory.

Edw. A. Ferguson.

The amount of Fee ... 1/80-
 Travelling Expenses (if any) 5.-
 When applied for, 19
 When received, 19

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

Committee's Minute

WCU. 8 APR 1931

Assigned

See F.E. Rpt.

LR-FAF-TB13-96



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