

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12159

22 JAN 1931

Received at London Office

Date of writing Report 10 January 1931 When handed in at Local Office 19 Port of AMSTERDAM

Location in Survey held at AMSTERDAM Date, First Survey 11 June Last Survey 17 Dec 1930 Number of Visits 9

On the ~~Single~~ ~~Twin~~ ~~Quad~~ Screw vessel "APOLLONIA" Tons Gross - Net -
Built at Rotterdam By whom built N.V. Werf v/h. Ryke & Co. Yard No. 202 When built 1931

Owners Anglo Saxon Petroleum Co. Port belonging to London
Engines made at Amsterdam By whom made N.V. Kromhout Motoren Fabriek type 2-HS-4 No. 5730, When made 1930

Generators made at - By whom made - Contract No. - When made -
No. of Sets 1 Engine Brake Horse Power 90/100 Nom. Horse Power as per Rule 27 Total Capacity of Generators - Kilowatts.

L ENGINES, &c.—Type of Engines *Horizontal oil engines* 2 or 4 stroke cycle *2* Single or double acting *Single*

Maximum pressure in cylinders *35 1/2 lb/cm²* Diameter of cylinders *265 mm* Length of stroke *350 mm* No. of cylinders *2* No. of cranks *2*

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge *394 mm* Is there a bearing between each crank *Yes*

Revolutions per minute *320 mm* Flywheel dia. *1300 mm* Weight *1450 kg* Means of ignition *compressed air* Kind of fuel used *Diesel oil*

Crank Shaft, dia. of journals as per Rule *as per Rule* Crank pin dia. *135 mm* Crank Webs Mid. length breadth *180 mm* Thickness parallel to axis *shrunk*
as fitted *135 mm* Mid. length thickness *46 mm* Thickness around eye-hole *solid*

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

Is a governor or other arrangement fitted to prevent racing of the engine when declutched *Yes* Means of lubrication *grease lubricator*

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

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

Lubricating Oil Pumps, No. and size *1.4 feeds and one for bearings and crankpins*

Air Compressors, No. *1* No. of stages *1* Diameters *as per Rule* Stroke *as per Rule* Driven by *as per Rule*

Scavenging Air Pumps, No. *1* Diameter *as per Rule* Stroke *as per Rule* Driven by *as per Rule*

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

Can the internal surfaces of the receivers be examined *as per Rule* What means are provided for cleaning their inner surfaces *as per Rule*

Is there a drain arrangement fitted at the lowest part of each receiver *as per Rule*

High Pressure Air Receivers, No. *as per Rule* Cubic capacity of each *as per Rule* Internal diameter *as per Rule* Thickness *as per Rule*

Seamless, lap welded or riveted longitudinal joint *as per Rule* Material *as per Rule* Range of tensile strength *as per Rule* Working pressure by Rules *as per Rule*

Starting Air Receivers, No. *as per Rule* Total cubic capacity *as per Rule* Internal diameter *as per Rule* Thickness *as per Rule*

Seamless, lap welded or riveted longitudinal joint *as per Rule* Material *as per Rule* Range of tensile strength *as per Rule* Working pressure by Rules *as per Rule*

ELECTRIC GENERATORS:—Type *Driving Peaseal Air Compressor and*

Pressure of supply *as per Rule* volts. Load *as per Rule* Amperes. Direct or Alternating Current *single phase*

If alternating current system, state frequency of periods per second *as per Rule*

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

Generators, do they comply with the requirements regarding rating *as per Rule* are they compound wound *as per Rule*

Are they over compounded 5 per cent. *as per Rule*, if not compound wound state distance between each generator

Is an adjustable regulating resistance fitted in series with each shunt field *as per Rule* Are all terminals accessible, clearly marked, and furnished with sockets *as per Rule*

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

PLANS. Are approved plans forwarded herewith for Shafting *Platycard* Receivers *in London* Separate Tanks *as per Rule*
(If not, state date of approval) *See letters 2.4.30. 23.4.30.*

EXTRA GEAR

1 set of fuel pipes, 2 pumps for fuel pumps; valves and cam for fuel pumps; 1 set of valves for air casing; 4 fuel jets; 2 governor springs; 2 springs for starting air valves; 6 packing rings; 1 set of valves for circulation pump; 1 piston with rings; 2 4 piston rings; 2 bottom end bearings, both; 1 gudgeon pin; 1 steel slab for same; 1 cylinder head with valves complete; 1 fuel pump.

The foregoing is a correct description,
N.V. KROMHOUT MOTOREN FABRIEK

D. Goedkoop Jr.
[Signature]

Manufacturer.



© 2020
Lloyd's Register
Foundation
W329-0029

Dates of Survey while building
 During progress of work in shops - 11/6, 2/7, 6/8, 15/9, 23/9, 31/10, 7/11, 26/11, 14/12.
 During erection on board vessel - - - - -
 Total No. of visits 9.

Dates of Examination of principal parts—Cylinders 2/7 - 31/10 Covers 2/7 - 31/10 Pistons 2/7 - 31/10 Piston rods -

Connecting rods 11/6 - 15/9 Crank and Flywheel shaft 11/6 - 15/9 Intermediate shaft -

Crank and Flywheel shafts, Material *Steel* Identification Mark *Lloyd's P.P. no. 450. 13. 59517*

Intermediate shafts, Material - Identification Marks -

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *Andover no. 12084 P. 5830.*

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

The engines have been constructed in accordance with the Rules, Secretary's letters and approved plans.

All material tested as required and workmanship good.

The engines have been tested on bench under full working condition and good.

The engines will be forwarded to Messrs. Pyke & Co. of Glasgow 202 *Prothburgh*

The amount of Fee	\$ 1200.-	When applied for,	19...
Travelling Expenses (if any) £	6-	When received,	16.1.31

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

Im. 9.28 - Transfer.

Committee's Minute

TUE. 18 AUG 1930

Assigned

J. E. Rpt.



© 2020
 Lloyd's Register
 Foundation