Lic: F.E. Report No 112620

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 15584

Received at London Office MAR 15 1939

Date of writing Report 10 March 19 39 When handed in at Local Office ____ 19 ____ Port of Amsterdam

No. in Reg. Book. Survey held at Amsterdam Date, First Survey 3 January Last Survey 7 March 1939.

Number of Visits 17

27788 on the Single / ~~Twin~~ / ~~Triple~~ / ~~Quadruple~~ Screw vessel "Diloma" Tons Gross ____ Net ____

Built at Birkenhead By whom built Cammell Laird & Co Yard No 1037 When built 1939

Owners Anglo Saxon Petroleum Company Port belonging to London

Oil Engines made at Amsterdam By whom made N.V. Kromhout Mot. Fab. Contract No. 8720 When made 1939

Generators made at ____ By whom made ____ Contract No. ____ When made ____

No. of Sets one Engine Brake Horse Power 32 Nom. Horse Power as per Rule 8 Total Capacity of Generators ____ Kilowatts.

OIL ENGINES, &c.—Type of Engines Kromhout 2 k S 3 2 or 4 stroke cycle 2 Single or double acting single

Maximum pressure in cylinders 45 kg Diameter of cylinders 170 m/m Length of stroke 225 m/m No. of cylinders 2 No. of cranks 2

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 274 m/m Is there a bearing between each crank Yes

Revolutions per minute 400 Flywheel dia. 1000 Weight 475 kg Means of ignition solid injection Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule approved as fitted 95 m/m Crank pin dia. 95 m/m Crank Webs Mid. length breadth 150 m/m Mid. length thickness 55 m/m shrunk Thickness parallel to axis ~ Thickness around eyehole ~

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

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

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

Cooling Water Pumps, No. 1 Worthington 3000 L Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 1 Worthington 250 L

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

Scavenging Air Pumps, No. ~ Diameter ~ Stroke ~ Driven by ~

AIR RECEIVERS:—Have they been made under Survey Yes State No. of Report or Certificate 1924.

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

Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Cover

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 ~

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

Starting Air Receivers, No. one Total cubic capacity 75 L Internal diameter 250 m/m thickness 7 m/m

Seamless, lap welded or riveted longitudinal joint Seamless Material S M S Range of tensile strength 44.50 kg Working pressure by Rules approved 46.0 kg actual: 25 kg

ELECTRIC GENERATORS:—Type

Pressure of supply ____ volts. **Full Load Current** ____ Amperes. **Direct or Alternating Current** ____

If alternating current system, state the periodicity ____ Has the **Automatic Governor** been tested and found efficient when the whole load is suddenly thrown on and off ____

Generators, are they compounded as per rule ____ is an adjustable regulating resistance fitted in series with each shunt field ____ Are all terminals accessible, clearly marked, and furnished with sockets ____

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

If the generators are under 100 kw. full load rating, have the Makers supplied certificates of test ____ and do the results comply with the requirements ____

If the generators are 100 kw. or over have they been built and tested under survey ____

PLANS. Are approved plans forwarded herewith for Shafting E 22-3-38 Receivers E 22-3-38 Separate Tanks ____
(If not, state date of approval)

SPARE GEAR

The foregoing is a correct description,
KROMHOUT MOTOREN FABRIEK
D. Goedkoop Jr. N.V.
Manufacturer.

L.J. 16/3/39

Dates of Survey while building — During progress of work in shops: January 3. 16. 18. 21. 24. 25. Feb 3. 8. 11. 15. 21. 22. 24. 28 March 4-6-7

During erection on board vessel: —

Total No. of visits: —

Dates of Examination of principal parts—Cylinders 24-28 Jan Covers 3. 25 Jan Pistons 3 Jan 22 Feb Piston rods —

Connecting rods 18 Jan 8 February Crank and Flywheel shafts 21 Jan 8-21 February Intermediate shafts —

Crank and Flywheel shafts, Material SMS Identification Marks L040'S 1719 H.K. 4B 8-2-39

Intermediate shafts, Material — Identification Marks —

Identification marks on Air Receivers 1924 Lloyd's Certs 5-0 APM KK 11-5-38

Is this machinery duplicate of a previous case Yes If so, state name of vessel Mr "Oscilla" Amsep 15-561

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

The Auxiliary engine has been made under Special in accordance with the approved plans & Secretary's letters Material duly tested, workmanships throughout good. The engine has been shipped to Birkenhead and will be fitted aboard Messrs Camell Laird & Co Yard No 1037.

This Machinery has been satisfactorily fitted on board, and examined under working conditions, found satisfactory.

J. S. Milton.

The amount of Fee ... ... £90- : When applied for, 14-3-1939

Travelling Expenses (if any) £6- : When received, 25/4/39 [illegible]

Surveyor to Lloyd's Register of Shipping.

Committee's Minute LIVERPOOL 31 MAY 1939

Assigned See Minute on H. Machinery

1m.5.37.—Transfer.

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