

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 15007

Received at London Office JUN 16 1939

Date of writing Report 12 June 1939 When handed in at Local Office 19 Port of Amsterdam

No. in Survey held at Amsterdam Date, First Survey 24 January Last Survey 24 May 1939

on the ^{Single} ~~Twin~~ ^{Triple} ~~Quadruple~~ Screw vessel *M. DONACILLA* Yard No. 54 Tons { Gross 8113 Net 4755

built at Blythwood By whom built Blythwood Ship Co Yard No. 54 When built

Owners Anglo Saxon Petroleum Co Port belonging to

Engines made at Amsterdam By whom made H. Kromhout 40 fab Contract No. 876 When made 1939

Generators made at By whom made Contract No. When made

No. of Sets 1 Engine Brake Horse Power 32 Nom. Horse Power as per Rule P Total Capacity of Generators Kilowatts.

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 mm Length of stroke 245 mm No. of cylinders 2 No. of cranks 2

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

Revolutions per minute 400 Flywheel dia. 1000 mm Weight 475 kg Means of ignition *Solid magnet* Kind of fuel used *Diesel oil*

Crank Shaft, dia. of journals as per Rule *approved* as fitted 95 mm Crank pin dia. 95 mm Crank Webs Mid. length breadth 150 mm Thickness parallel to axis *shrunk*

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

Is there 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 *rotary 3200 l/hour* Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 1 *rotary 200 l/hour*

Air Compressors, No. *1* No. of stages *1* Diameters *150 mm* Stroke *100 mm* Driven by *engine*

Scavenging Air Pumps, No. *1* Diameter *150 mm* Stroke *100 mm* Driven by *engine*

AIR RECEIVERS:—Have they been made under Survey *Yes* State No. of Report or Certificate 1920.

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. *1* Cubic capacity of each *75 l* Internal diameter *250 mm* thickness *7 mm*

Seamless, lap welded or riveted longitudinal joint *Seamless* Material *SN 3* Range of tensile strength *44-50 kg* Working pressure by Rules *approved*

Starting Air Receivers, No. *one* Total cubic capacity *75 l* Internal diameter *250 mm* thickness *7 mm*

Seamless, lap welded or riveted longitudinal joint *Seamless* Material *SN 3* Range of tensile strength *44-50 kg* Working pressure by Rules *approved*

ELECTRIC GENERATORS:—Type

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

Is 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

Excitation 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 22.3-30* Receivers *E 22.3-30* Separate Tanks

SHAFTING GEAR

The foregoing is a correct description,

KROMHOUT MOTOREN FABRIEK

D. Goedkoop Jr. N.V. Manufacturer.



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005046-003055-0309

Dates of Survey while building { During progress of work in shops - Jan 24, Feb 8-20, April 3-6, 14-24, May 11-15-19-24.
During erection on board vessel - - -
Total No. of visits

Dates of Examination of principal parts—Cylinders 3-6 April Covers 25 Jan. 3 April Pistons 25 Jan 3 April Piston rods -

Connecting rods 24 Jan 11 May Crank and Flywheel shafts Feb 8. May 11 Intermediate shafts -

Crank and Flywheel shafts, Material SMS Identification Marks 1716-HK Lloyd's 4013 D-2-39

Intermediate shafts, Material Identification Marks -

Identification marks on Air Receivers 1920
Lloyd's test 50 hp
H.P. 25 hp
K K 11-5-38

Is this machinery duplicate of a previous case Yes If so, state name of vessel Anseport 15661

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

The Motor has been made under special Survey in accordance with approved plans. Secretary's letters and the Society's rules Material duly tested, workmanship throughout good.

The Motor has been shipped to Blythwood and will be fitted aboard Messrs Blythwood Shipbuilding Co. Ltd. No 54.

This engine has been efficiently installed on board the vessel & tested with satisfactory results

Charles H. Hunter

Greenock
4/11/39.

The amount of Fee ...

£90-
£3-

When applied for,

15-6-1939

Travelling Expenses (if any)

When received,

8-7-1939

Lon. Ltr. 8.7.39

B. Murphy
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 7 - NOV 1939

Assigned

SEE ACCOMPANYING MACHINERY REPORT.



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