

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 15522

Received at London Office

23 JAN 1939

Date of writing Report 17 Jan 1939 When handed in at Local Office 19 Port of Amsterdam
 No. in Survey held at Amsterdam Date, First Survey 27 August Last Survey 9 January 1939
 Reg. Book. 87781 on the Single Twin Triple Quadruple Screw vessel "DARONIA." Number of Visits 17

Built at More on Zee (Hebburn) By whom built R. W. Hawthorn - Leslie & Co Ltd Yard No. 617 When built 1929
 Owners Port belonging to

Oil Engines made at Amsterdam By whom made H. V. Kromhout Motoren Contract No. 8717 When made 1929

Generators made at Amsterdam By whom made H. V. Kromhout Motoren Contract No. 8717 When made 1929

No. of Sets one Engine Brake Horse Power 32 Nom. Horse Power as per Rule 0 Total Capacity of Generators 32 Kilowatts.

OIL ENGINES, &c.—Type of Engines Kromhout Diesel 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 225 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 inject Kind of fuel used Diesel oil

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

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

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 2000 L/hour Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size 1 2000 L/hour

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

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

AIR RECEIVERS:—Have they been made under Survey Yes State No. of Report or Certificate 1929

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 Yes

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

High Pressure Air Receivers, No. 1 Cubic capacity of each 1500 L Internal diameter 150 mm thickness 7 mm

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

Starting Air Receivers, No. 1 Total cubic capacity 750 L Internal diameter 250 mm thickness 7 mm

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

ELECTRIC GENERATORS:—Type Direct

Pressure of supply 220 volts Full Load Current 147 Amperes Direct or Alternating Current Direct

If alternating current system, state the periodicity 50 cycles Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off Yes

Generators, are they compounded as per rule Yes is an adjustable regulating resistance fitted in series with each shunt field Yes

Are all terminals accessible, clearly marked, and furnished with sockets Yes

Are 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

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

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

PLANS. Are approved plans forwarded herewith for Shafting Yes 22-3-20 Receivers 22-3-20 Separate Tanks Yes

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The foregoing is a correct description,

KROMHOUT MOTOREN FABRIEK

D. Goedkoop Jr. N.V.

Manufacturer.



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002620-002630-0009

Dates of Survey while building { During progress of work in shops - - 27. 29 Aug Sept 13. 20 Oct 3. Nov 7. 18. 23. 28 Dec 1. 6. 10. 13. 21. 27. Jan 3 - pt.
During erection on board vessel - - -
Total No. of visits

Dates of Examination of principal parts—Cylinders Nov 7. 23 Jan 3 Cover Oct 3 Nov 23 Pistons Sept 12. 20. Dec 1 Piston rods L

Connecting rods Nov 7. 23. Dec 27 Crank and Flywheel shafts Nov 7. 23. Dec 1-6 Intermediate shafts L

Crank and Flywheel shafts, Material S H S

Identification Marks 1717
Kluga's
HK. 410 13 2314. 20

Intermediate shafts, Material L

Identification Marks L

Identification marks on Air Receivers 1920
Kluga's but 50 KPM
H. D. 25 APR
Kk. 11-5-20

Is this machinery duplicate of a previous case Yes If so, state name of vessel M.V. Clovella Ans up. 1552

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

The Auxiliary engine has been made under special survey in accordance with the approved plans & Secretary's letters Material duly tested workmanship throughout good

The engine has been shipped to Sunderland and will be fitted aboard M.V. The Sunderland forge & engineering Ltd No 617

This engine has been efficiently installed on board M.V. DARONIA examined under working conditions & found satisfactory.

L. Prescott.

The amount of Fee ... 890-

Travelling Expenses (if any) 6-

When applied for,

21-1-1939

When received,

19

Committee's Minute

Assigned

Surveyor to Lloyd's Register of Shipping.



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