

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11386

28 MAR 1929

Received at London Office

Date of writing Report 11 March 1929. When handed in at Local Office

Port of AMSTERDAM

No. in Survey held at AMSTERDAM
Reg. Book.

Date, First Survey 14 January Last Survey 25 February 1929

Number of Visits 2

on the Single
Twin
Triple
Quadruple Screw vessel MESSRS CAMMELL LAIRD & CO'S YARD NO. 946Tons Gross
Net

Built at Birkenhead

By whom built Cammell Laird & Co

Yard No.

When built

Owners K James Chambers & Co.

Port belonging to

Liverpool

Oil Engines made at Amsterdam

By whom made

Kromhout Motoren Fabriek

Eng. No.

4969, type HS-3

When made

1929

Generators made at

By whom made

Contract No.

When made

No. of Sets 1 Engine Brake Horse Power 35

Nom. Horse Power as per Rule 10

Total Capacity of Generators 10 Kilowatts.

OIL 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 240 mm. Length of stroke 310 mm. No. of cylinders one No. of cranks one

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 330 mm. Is there a bearing between each crank

Revolutions per minute 350 Flywheel dia. 1500 mm. Weight 1000 kg. Means of ignition self ignition Kind of fuel used crude oil

Crank Shaft, dia. of journals as per Rule 110 mm. as fitted 110 mm. Crank pin dia. 110 mm. Crank Webs Mid. length breadth 150 mm. Mid. length thickness 40 mm. Thickness parallel to axis shrunk Thickness around eye hole Solid

Flywheel Shaft, diameter as per Rule 110 mm. as fitted 110 mm. Intermediate Shafts, diameter as per Rule 110 mm. as fitted 110 mm. Thickness of cylinder liners 1 mm.

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

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. one Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size one 5 feeds

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

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

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule 1

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

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

High Pressure Air Receivers, No. 1 Cubic capacity of each 1 Internal diameter 1 thickness 1

Seamless, lap welded or riveted longitudinal joint Material 1 Range of tensile strength 1 Working pressure by Rules 1

Starting Air Receivers, No. 1 Total cubic capacity 1 Internal diameter 1 thickness 1

Seamless, lap welded or riveted longitudinal joint Material 1 Range of tensile strength 1 Working pressure by Rules 1

ELECTRIC GENERATORS: Type Sunderland Force Dyn. Type Dynamic

Pressure of supply 220 volts. Load 105 Amperes. Direct or Alternating Current Direct

If alternating current system, state frequency of periods per second 1

Has 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

are they over compounded 5 per cent. Yes, if not compound wound state distance between each generator

is an adjustable regulating resistance fitted in series with each shunt field 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

PLANS. Are approved plans forwarded herewith for Shafting, Receivers, Separate Tanks

SPARE GEAR

1 set of piston rings, 1 gudgeon pin, 1 roller plate for same, 2 bottom end
bolts and nuts, two main beam bolts and nuts, 1 fuel pump complete,
various lengths of pipe, 2 leather valves (crank case air valve), 6 steel
ball valves, 2 governor springs, springs and valves for cooling pumps.

The foregoing is a correct description,
N.V. KROMHOUT MOTOREN FABRIEK
D. G. OOP JR.

Manufacturer.



© 2021

Lloyd's Register
Foundation

002762-002769-0153

Dates of Survey while building { During progress of work in shops - - }
{ During erection on board vessel - - - }
Total No. of visits

Jan 14. 29. 30. February 8. 9. 15. 19. 23

8

Dates of Examination of principal parts—Cylinders 14/1 - 15/2 Covers 14/1 - 15/2 Pistons 14/1 - 15/2 Piston rods

Connecting rods 14/1 - 15/2 Crank and Flywheel shaft 14/1 - 15/2 Intermediate shaft

Crank and Flywheel shaft, Material Steel Identification Mark M.C.K. 1379 Intermediate shafts, Material Identification Marks

Is this machinery duplicate of a previous case No If so, state name of vessel

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

The engine has been built under special survey, in accordance with the approved plans and Surveyor's letter, material tested as required and workmanship good. The engine has been tested on bench under full working condition and good.

1m. 7.28—Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee ... £ 180 - - : When applied for, 19...
Travelling Expenses (if any) £ 9 - - : When received, 28.3.19.20

Committee's Minute
Assigned

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