

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12004

Received at London Office

73 45 NOV 1930

Date of writing Report 14 August 1930 When handed in at Local Office

Port of AMSTERDAM

No. in Survey held at AMSTERDAM

Date, First Survey 21 February Last Survey 4 August 1920

Reg. Book.

on the Single Screw vessel G. BROWN & CO LTD'S YARD NO. 175

ZWEEYA

Tons { Gross -
Net -

Built at Greenock

By whom built G. Brown & Co. Ltd.

Yard No. 175 When built building

Owners Anglo-Saxon Petroleum Co. Ltd.

Port belonging to London

Oil Engines made at Amsterdam By whom made Kromhout Motoren Fabriek No. 5808 When made 1930

Generators made at By whom made Contract No. When made

No. of Sets 1 Engine Brake Horse Power 26/30 Nom. Horse Power as per Rule 10 Total Capacity of Generators 4 Kilowatts.

OIL ENGINES, &c. Type of Engines Steam and Oil in one Type H. S. II 2 stroke cycle Single or double acting

Maximum pressure in cylinders 55 kg/cm² Diameter of cylinders 210 mm Length of stroke 275 mm No. of cylinders 1 No. of cranks 1

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 328 mm Is there a bearing between each crank Solie

Revolutions per minute 390 mm Flywheel dia. 1100 mm Weight 1180 kg Means of ignition Comp. air Kind of fuel used Gas oil

Crank Shaft, dia. of journals as per Rule 110 mm Crank pin dia. 110 mm Crank Webs Mid. length breadth 150 mm Thickness parallel to axis shrunk Thickness around eyehole Solie

Flywheel Shaft, diameter as per Rule 1 Intermediate Shafts, diameter as per Rule 1 Thickness of cylinder liners 2

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

Are the cylinders fitted with safety valves No Are the exhaust pipes and silencers water cooled or lagged with non-conducting material No, coils

Cooling Water Pumps, No. 6 Is the sea suction provided with an efficient strainer which can be cleared within the vessel 2

Lubricating Oil Pumps, No. and size 1 two feeds for cylinders, 1 stroke pump for crankshaft

Air Compressors, No. 1 No. of stages 2 Diameters 42 cm Stroke 1 minute Driven by engine

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 1 What means are provided for cleaning their inner surfaces 1

Is there a drain arrangement fitted at the lowest part of each receiver 1

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

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

ELECTRIC GENERATORS: Type 1 Compound, 1 Shunt

Pressure of supply 1-110 volts Load 1-36.4 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 1

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 1

PLANS. Are approved plans forwarded herewith for Shifting Receivers 1 in London Separate Tanks 1

SPARE GEAR

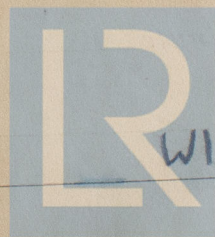
Piston with rings complete, cylinder head with valves complete, 2 gudgeon pins, 2 roller plates, 1 set of bottom end bushes and bolts, 1 set of bearing bushes and bolts, 1 fuel pump complete, various lengths of pipes, 2 fuel injectors, 2 starting air valves and springs.

The foregoing is a correct description,

N.V. KROMHOUT MOTOREN FABRIEK

D. Goedkoop Jr.

Manufacturer.



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W1064-0138 Register Foundation

Dates of Survey while building { During progress of work in shops - 2 1/2, 18 1/2, 29 1/2, 45 1/2, 45, 14 1/2, 17 1/2, 48
 During erection on board vessel - - -
 Total No. of visits 9

Dates of Examination of principal parts—Cylinders 2 1/2 - 4 1/2 Covers 2 1/2 - 18 1/2 Pistons 2 1/2 - 18 1/2 Piston rods 6
 Connecting rods 45 - 14 1/2 Crank and Flywheel shaft 14 1/2 - 27 1/2 Intermediate shaft 6
 Crank and Flywheel shaft, Material Steel Identification Mark No. 440 13-5-30 Intermediate shafts, Material 6 Identification Marks 6

Is this machinery duplicate of a previous case Yes. If so, state name of vessel Engine 5841/s. Still in hand. Survey, letter 1. 1. 3. 30.

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

The engines have been constructed under special survey in accordance with the approval from the Surveyor's letter. All motions tested as required; workmanship good. Engines tried under full working condition on test bench and good.

T. R. Bennett

The amount of Fee ... £ 180. - : When applied for, 19...
 Travelling Expenses (if any) £ 5 : When received, 19th September 30.

T. R. Bennett
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned



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