

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12127

2nd DEC 1930

Date of writing Report 15 Dec 1930 When handed in at Local Office

Port of AMSTERDAM

No. in Survey held at AMSTERDAM

Date, First Survey 11 June Last Survey 15 Dec 1930

Reg. Book.

Number of Visits 9

on the ~~Single~~ ^{Twin} Screw vessel NEDERLANDSCHE DOK MY'S YARD NO. 38Tons { Gross -
Net -

Built at Amsterdam

By whom built Nederlandsche Dok My.

Yard No. 38 When built 1930

Owners Anglo Saxon Petroleum Co. Ltd.

Port belonging to London

Oil Engines made at Amsterdam

By whom made N.V. Kromhout Motoren

No. 5726, type 2-HS-4 When made 1930

Generators made at -

By whom made -

Contract No. - When made -

No. of Sets 1 Engine Brake Horse Power 90 Nom. Horse Power as per Rule 26 Total Capacity of Generators - 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/cm² Diameter of cylinders 265 mm Length of stroke 350 mm No. of cylinders 2 No. of cranks 2

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 394 mm Is there a bearing between each crank 1/2

Revolutions per minute 320 Flywheel dia. 1300 mm Weight 1450 kg Means of ignition contact ai Kind of fuel used Solar oil

Crank Shaft, dia. of journals as per Rule 4 1/2 as fitted 135 mm Crank pin dia. 135 mm Crank Webs Mid. length breadth 180 mm Thickness parallel to axis 1/2 shrunk Mid. length thickness 46 mm Thickness around eye hole 1/2

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

Is a governor or other arrangement fitted to prevent racing of the engine when declutched 1/2 Means of lubrication 1/2

Are the cylinders fitted with safety valves 1/2 Are the exhaust pipes and silencers water cooled or lagged with non-conducting material 1/2

Cooling Water Pumps, No. 1 Is the sea suction provided with an efficient strainer which can be cleared within the vessel 1/2

Lubricating Oil Pumps, No. and size 1 Mc. of 4 fuda on for bearings, crankpins

Air Compressors, No. 1 No. of stages 2 Diameters 1/2 Stroke 2 Driven by 2

Scavenging Air Pumps, No. 1 Diameter 1/2 Stroke 1/2 Driven by 2

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule 1/2

Can the internal surfaces of the receivers be examined 1/2 What means are provided for cleaning their inner surfaces

Is there a drain arrangement fitted at the lowest part of each receiver 1/2

High Pressure Air Receivers, No. 1 Cubic capacity of each 1/2 Internal diameter 1/2 thickness 1/2

Seamless, lap welded or riveted longitudinal joint 1/2 Material 1/2 Range of tensile strength 1/2 Working pressure by Rules 1/2

Starting Air Receivers, No. 1 Total cubic capacity 1/2 Internal diameter 1/2 thickness 1/2

Seamless, lap welded or riveted longitudinal joint 1/2 Material 1/2 Range of tensile strength 1/2 Working pressure by Rules 1/2

ELECTRIC GENERATORS:—Type Driving Kromhout air compressor and Dand Bruns's

Pressure of supply 1/2 volts Load 1/2 Amperes Direct or Alternating Current 1/2

If alternating current system, state frequency of periods per second 1/2

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off 1/2

Generators, do they comply with the requirements regarding rating 1/2 are they compound wound 1/2

are they over compounded 5 per cent. 1/2, if not compound wound state distance between each generator 1/2

is an adjustable regulating resistance fitted in series with each shunt field 1/2 Are all terminals accessible, clearly marked, and furnished with sockets 1/2

are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched 1/2 Are the lubricating arrangements of the generators as per Rule 1/2

PLANS. Are approved plans forwarded herewith for Shafting 1/2 Receivers 1/2 Separate Tanks 1/2

(If not, state date of approval) 1/2

SPARE GEAR One set of fuel pump, Springs for fuel pump, valves and cam for fuel pump, 1 set of valves for air casing, 4 fuel jets, 2 governor springs, 1 spring for starting air valves, 6 packing rings, 1 set of valves for circulating pumps, 1 piston with rings, 24 piston rings, 2 pump cranks, 2 bottom end frames and bolts, 1 gudgeon pin, 1 steel slab for same, 1 cylinder head with valves complete, 1 fuel pump and 2 cams.

The foregoing is a correct description.

N.V. KROMHOUT MOTOREN FABRIEK

D. Goedkoop Jr.

Manufacturer.



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Foundation

WT042-0096

Dates of Survey while building { During progress of work in shops - 1/6. 4/6. 21/6. 29/6. 27/7. 23/7. 9/8. 7/11. 2/12
During erection on board vessel - - -
Total No. of visits 9

Dates of Examination of principal parts—Cylinders 11/6 - 21/8 Covers 11/6 - 21/8 Pistons 11/6 - 21/8 Piston rods <

Connecting rods 16/6 - 23/9 Crank and Flywheel shaft 16/6 - 23/9 Intermediate shaft <

Crank and Flywheel shafts, Material Steel

Identification Mark F.S. 14. 5. 30 W. 413 Lloyd's

Intermediate shafts, Material <

Identification Marks <

Is this machinery duplicate of a previous case? No If so, state name of vessel Eng. N° 5850. Amst. Reg. N° 12084.

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

The engines have been constructed in accordance with the Rules Secretary's letter and approved plans.
All material tested as required and workmanship good.
The engines have been tested on bench under full working conditions and found.

The amount of Fee ... £ 100. -

Travelling Expenses (if any) £ 6. 50

When applied for,

19

When received,

29. 12. 30

F. N. Barnard
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 25 AUG 1931

Assigned

See Amst. 76 12375



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