

Newcastle-on-Tyne

No. 87052

21 APR 1931

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12004

Received at London Office 14 NOV 1930

Date of writing Report 5 Nov 1930 When handed in at Local Office 19 Port of AMSTERDAM

No. in Survey held at AMSTERDAM Date, First Survey 11 June Last Survey 29 October 1930

Reg. Book. ~~Single~~ ~~Double~~ ~~Triple~~ ~~Quadruple~~ KROMHOUT OIL ENGINE NO. 5830, type 2-HS-4 M/V. HELIX. Tons { Gross - Net - }

Built at ~~Hebbum~~ By whom built ~~Hawthorn Leslie & Co. Ltd.~~ Yard 546 When built 1931

Owners Anglo Saxon Petroleum Co., Ltd. Port belonging to London

Oil Engines made at Amsterdam By whom made N.V. Kromhout Motoren Fabriek type 2HSL Contract No. 5830 When made 1930

Generators made at - By whom made Eng. - Contract No. - When made 1930

No. of Sets 1 Engine Brake Horse Power 90/100 Nom. Horse Power as per Rule 27 Total Capacity of Generators - Kilowatts.

OIL ENGINES, &c.—Type of Engines Kromhout oil engine 2 stroke cycle Single or double acting

Maximum pressure in cylinders 35 1/2 psi Diameter of cylinders 165 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 ☒

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

Crank Shaft, dia. of journals as per Rule 135 mm Crank pin dia. 135 mm Mid. length breadth 180 mm Thickness parallel to axis 46 mm

Flywheel Shaft, diameter as per Rule 135 mm Intermediate Shafts, diameter as per Rule 135 mm Thickness around eye hole 46 mm

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

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

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

Lubricating Oil Pumps, No. and size 1 4 feed for cylinders, one circulation for bearings, crankpin

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

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

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

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 Driving Reversible Air compressors and pumps

Pressure of supply 1 volts Load 1 Amperes Direct or Alternating Current ☒

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 ☒

Generators, do they comply with the requirements regarding rating ☒ are they compound wound ☒

are they over compounded 5 per cent. ☒ 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 ☒

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 ☒

PLANS. Are approved plans forwarded herewith for Shafting ☒ Receivers ☒ h. London Separate Tanks ☒

(If not, state date of approval) 8 letters 4.3.30. 23.4.30.

SPARE GEAR

One set of fuel pipes; Springs for fuel pump, valves and cam for fuel pump; 1 set of valves for air coming; 4 fuel jets; 2 governor springs; 2 springs for starting air valves; 6 packing rings; 1 set of valves for circulating pump; 1 piston with rings; 24 piston rings; 2 pump rods; 2 bottom end bearings and bolts; 1 gudgeon pin; 1 steel bolt 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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Lloyd's Register
Foundation

00006-00224-0155

Dates of Survey while building { During progress of work in shops - - 11/6, 1/8, 14/8, 2/9, 15/9, 24/9, 29/10, 29/11
During erection on board vessel - - -
Total No. of visits 4

Dates of Examination of principal parts—Cylinders 11/6 - 14/8 Covers 11/6 - 14/8 Pistons 11/6 - 2/9 Piston rods 11/6 - 2/9

Connecting rods 11/6 - 2/9 Crank and Flywheel shaft 11/6 - 15/9 Intermediate shaft 11/6 - 15/9

Crank and Flywheel shafts, Material Steel Identification Mark Lloyd's n. 412 F.S. 16.5.30

Intermediate shafts, Material L Identification Marks

Is this machinery duplicate of a previous case Yes If so, state name of vessel Engine n. 544

General Remarks (State quality of workmanship, opinions as to class, &c.) Amstr. Reg. n. 12043

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 condition and good.

The engines have been forwarded to Messrs. W. R. Hawthorn Leslie & Co. Ltd. Manchester, in Tyne.

This engine has now been securely fitted on board the vessel, tried under full working conditions & found satisfactory.

Wm. A. Burgess.

Im. 9. 28.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee Minute.)

| | | | |
|--------------------------------|---------|-------------------|------------|
| The amount of Fee ... | £ 200.- | When applied for, | 19... |
| Travelling Expenses (if any) £ | 5. 50. | When received, | 13. 11. 30 |

T. W. Beaman
Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned
FRI. 24 APR 1931
See F. E. Rpt.