

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 13325

Received at London Office 28 NOV 1934

Date of writing Report 24<sup>th</sup> Nov 1934 When handed in at Local Office 10 Port of Amsterdam.

No. in Survey held at Amsterdam Date, First Survey 13<sup>th</sup> May Last Survey 20<sup>th</sup> Nov 1934  
Reg. Book. Number of Visits 17

Single  
on the Twin }  
Triple } Screw vessel  
Quadruple }

Tons { Gross  
Net

Built at Odense By whom built Messrs Odense Staalskibsværft No. 54 When built

Owners Anglo Saxon Petroleum Co. Port belonging to

Oil Engines made at Amsterdam By whom made Messrs Kromhout Cong. No. 7165 When made 34

Generators made at Sunderland By whom made Sunderland Forge Contract No. When made

No. of Sets 1 Engine Brake Horse Power 30 Nom. Horse Power as per Rule 13 Total Capacity of Generators 16 Kilowatts.

**OIL ENGINES, &c.**—Type of Engines Kromhout Diesel Engine H.S. 2 2 or 4 stroke cycle 2 Single or double acting Single

Maximum pressure in cylinders 35 k.g./cm<sup>2</sup> 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 ✓

Revolutions per minute 390 Flywheel dia. 1100 mm Weight 1340 k.g. Means of ignition Compression Kind of fuel used Diesel Oil

**Crank Shaft**, dia. of journals as per Rule 140 mm as fitted 110 mm Crank pin dia. 110 mm Crank Webs Mid. length breadth 150 mm Thickness parallel to axis ✓  
Mid. length thickness 70 mm shrunk Thickness around eye hole ✓

**Flywheel Shaft**, diameter as per Rule ✓ as fitted ✓ **Intermediate Shafts**, diameter as per Rule 40 mm as fitted 40 mm Thickness of cylinder liners No liner fitted.

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

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

**Cooling Water Pumps**, No. 1a 3 ton per hour Is the sea suction provided with an efficient strainer which can be cleared within the vessel ✓

**Lubricating Oil Pumps**, No. and size gear wheel pump capacity 6 liters per min. ✓

**Air Compressors**, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓

**Scavenging Air Pumps**, No. crankcase scavenging Diameter ✓ Stroke ✓ Driven by ✓

**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. ✓ Cubic capacity of each ✓ Internal diameter ✓ thickness ✓

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

**Starting Air Receivers**, No. 1 Total cubic capacity 75 liter Internal diameter 250 mm thickness 4 mm ✓

Seamless, lap welded or riveted longitudinal joint Seamless Material Sph. Steel Range of tensile strength 44/50 k.g. Working pressure by Rules 25 k.g. ✓

**ELECTRIC GENERATORS**:—Type

**Pressure of supply** volts. **Load** Amperes. **Direct or Alternating Current**

If alternating current system, state frequency of periods per second

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 11/4/34 Receivers 11/4/34 Separate Tanks ✓  
(If not, state date of approval)

## SPARE GEAR

- 1 Delivery pipe for fuel pump; 1 Impeller for cooling water pump.
- 2 fuel sprayers; 1 Valve for Starting air valve; 1 Spring for governor.
- 1 Set of piston rings; 1 Set of bolts for bottom end brasses
- 1 Set of Studs and nuts for main bearing brasses.
- 1 Set of Studs and nuts for attaching Combustion Chamber on Cylinder.
- 2 leather valves for Air valves crankcase.
- 4 Springs for Air Seal ring; 1 bush and plunger for fuel pump.

The foregoing is a correct description.

N.V. KROMHOUT MOTOREN FABRIEK  
D. Goedkoop Jr.

Manufacturer.



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Lloyd's Register  
Foundation

003659-003670-0145

L.H.  
4/12/34

Dates of Survey while building  
 During progress of work in shops - May 13; June 2-17; Aug 9; Sept: 3-10-12; Oct 3-4-9-12-13  
 During erection on board vessel - 15-16-17; Nov: 19-20  
 Total No. of visits 17.

Dates of Examination of principal parts—Cylinders 3/9/34 Covers 12/9/34 Pistons 12/9/34 Piston rods ✓

Connecting rods 3/9/34 Crank and Flywheel shaft 17/6/34 - 3/9/34 Intermediate shaft 25/5/34

Crank and Flywheel shafts, Material S. M. Steel Identification Mark LLOYDS C.H.L.P. 1893 H-K 3-9-34

Intermediate shafts, Material S. M. Steel Identification Marks LLOYDS NO 259 H-K 25-5-34

Is this machinery duplicate of a previous case Yes If so, state name of vessel Eng No 7161 & 7203

General Remarks (State quality of workmanship, opinions as to class, etc.) This Engine has been constructed under Special Survey in accordance with the requirements of the Rules; the Secretary's letters and the approved plans. Engine tried under full loaded condition on test bed and found satisfactory.

B

The Surveyors are requested not to write on or below the space for Committee Minute.

The amount of Fee ... £ 130.00  
 Travelling Expenses (if any) £ 6.00  
 When applied for, 19...  
 When received, 25.1.35

*Mr. Truyst*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 5 APR 1935  
 Assigned See J. E. Machy