

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 13326

Received at London Office  
 Date of writing Report 24<sup>th</sup> Nov 1934 When handed in at Local Office 19 Port of Amsterdam 28 NOV 1934  
 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 11

Single  
 on the Twin  
 Triple  
 Quadruple  
 Screw vessel

RAPANA

Tons } Gross  
 Net

Built at Rotterdam By whom built Messrs Wilton Frensdorff Yard No 654 When built  
 Owners Anglo Saxon Petroleum Co. Port belonging to  
 Oil Engines made at Amsterdam By whom made Messrs Kromhout Eng No. 7204 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 12 Total Capacity of Generators 16 Kilowatts.

OIL ENGINES, &c.—Type of Engines Kromhout Diesel Engine H.S. 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 1240 k.g. Means of ignition Compression Kind of fuel used Diesel 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  
 as fitted 110 mm Mid. length thickness 40 mm Thickness around eye hole

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule 70 mm Thickness of cylinder liners no liner fitted  
 as 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. 1 a 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 2 gear wheel pumps, capacity 6 liters per min each

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 45 liter Internal diameter 250 mm thickness 4 mm

Seamless, lap welded or riveted longitudinal joint Seamless Material S.M. Steel Range of tensile strength 4450 k.g. Working pressure by Rules 25 k.g.  
 46.5

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

SHAFTING 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.  
 3 leather valves for Air Valves crankcase  
 4 O-rings 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

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Dates of Survey while building { During progress of work in shops - May 13; June 2-17; Aug 9; Sept. 3-10-12; Oct 3-4-9-12-23 - 25-26-27 Nov: 19-20  
During erection on board vessel - - -  
Total No. of visits 17.

Dates of Examination of principal parts - Cylinders 3/9/34 Covers 12/9/34 Pistons 9/10/34 Piston rods -  
Connecting rods 12/10/34 Crank and Flywheel shaft 9/10/34 - 3/9/34 Intermediate shaft 25/5/34 - 27/10/34  
Crank and Flywheel shafts, Material S. M. Steel Identification Mark LLOYD'S 1886  
Intermediate shafts, Material S. M. Steel Identification Marks H. H. 3-9-34  
LLOYD'S NO 259  
H. H. 25-5-34

Is this machinery duplicate of a previous case Yes If so, state name of vessel 7161-7203-7165.

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

1m. 28 - Transfer.  
(The Surveyors are requested not to write on or below the space for Committee Minutes.)

The amount of Fee ... £ 120.00  
Travelling Expenses (if any) £ 6.00  
When applied for, 19...  
When received, 19...

M. Gray  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute  
Assigned See Rot. F.C. 23604