

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 13020

21 SEP 1936  
27 JAN 1937

Received at London Office

Date of writing Report 15 Sept. 1936 When handed in at Local Office 19 Port of Amsterdam

No. in Survey held at Amsterdam Date, First Survey 3<sup>rd</sup> March Last Survey 20<sup>th</sup> Aug 1936  
Reg. Book. Eagle Oil Shipping Co. Ltd. Visits 13

Single  
on the Twin  
Triple  
Quadruple

Screw vessel Tanker for the Eagle Oil Shipping Co. Ltd. Tons { Gross  
Net

Built at Glasgow By whom built Bluthrood Shipbuilding Co. Ltd. No. 43 When built 1936

Owners Messrs Eagle Oil Shipping Co. Ltd. Port belonging to London

Oil Engines made at Amsterdam By whom made M. Kromhout Mot. Fabriek Contract No. 7906 When made 1936

Generators made at Amsterdam By whom made D. Goedkoop Jr. Contract No. 7906 When made 1936

No. of Sets 1 Engine Brake Horse Power 30 Nom. Horse Power as per Rule 12 Total Capacity of Generators 30 Kilowatts.

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

Maximum pressure in cylinders 40 h.g. 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 1100 h.g. Means of ignition Compression Kind of fuel used Diesel Oil.

Crank Shaft, dia. of journals as per Rule appr. as fitted 110 mm. Crank pin dia. 110 mm. Crank Webs Mid. length breadth 150 mm. Thickness parallel to axis ✓

Coupling as per Rule appr. as fitted 110 mm. Intermediate Shafts, diameter as per Rule ✓ as fitted ✓ Mid. length thickness 70 mm. Thickness around eyehole ✓

Flywheel Shaft, diameter as per Rule appr. as fitted 110 mm. Intermediate Shafts, diameter as per Rule ✓ as fitted ✓ Thickness of cylinder liners No liners fitted.

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

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

Cooling Water Pumps, No. 12 440 liters per hour Is the sea suction provided with an efficient strainer which can be cleared within the vessel ✓

Lubricating Oil Pumps, No. and size 12 850 liters per hour.

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 liters Internal diameter 250 mm. thickness 4 mm.

Seamless, lap welded or riveted longitudinal joint Seamless Material S.M. Steel Range of tensile strength 44-50 h.g. Working pressure by Rules 25 h.g.

ELECTRIC GENERATORS:—Type ✓

Pressure of supply ✓ volts. Full Load Current ✓ Amperes. Direct or Alternating Current ✓

If alternating current system, state the periodicity ✓ Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off ✓

Generators, are they compounded as per rule ✓ 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 ✓

If the generators are under 100 kw. full load rating, have the makers supplied certificates of test ✓ and do the results comply with the requirements ✓

If the generators are 100 kw. or over have they been built and tested under survey ✓

PLANS. Are approved plans forwarded herewith for Shafting 19/1/36 Receivers 19/1/36 Separate Tanks ✓

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The foregoing is a correct description,  
N.V. KROMHOUT MOTOREN FABRIEK  
D. Goedkoop Jr.

*D. Goedkoop Jr.*

Manufacturer.



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Lloyd's Register  
Foundation

W1138-0098

Dates of Survey while building  
 During progress of work in shops - -  
 During erection on board vessel - - -  
 Total No. of visits

March 3; April 4-17; May 9-20; June 8-18-19.  
 July 3-9; Aug. 14-21-28.  
 13.

Dates of Examination of principal parts—Cylinders 29/6/36 Covers 27/5/36 Pistons 29/6/36 Piston rods ✓

Connecting rods 17/4/36 Crank and Flywheel shaft 20/5/36 Intermediate shaft ✓

Crank and Flywheel shafts, Material S.M. Steel Identification Mark LLOYD'S C.H.L.P. NO 1200

Coupling shafts, Material S.M. Steel Identification Marks H.K. 20-5-36 LLOYD'S H.P.B. 1959 H.K. 17-4-36

Is this machinery duplicate of a previous case Yes If so, state name of vessel Anglo Saxon tankers

General Remarks (State quality of workmanship, opinions as to class, &c. This engine has been built

under Special Survey. The scantlings were found in accordance with the approved plans and Secretary's letters.

Hydraulic tests were carried out on the water cooling spaces of cylinder jacket, cover and Silencer with satisfactory results. The material and workmanship found in order, and the engine when tried under working condition on the test bed gave satisfactory results.

This engine is in my opinion suitable to be placed on board the Tank vessel for the Anglo Saxon Petroleum Co Ltd. built by Messrs. The Blythwood Shipbuilding Co Ltd. at Glasgow.

Engine securely fitted on board & tested & found satisfactory

W. Gordon Thuesen  
 Greenock

The amount of Fee ... £ 90.00  
 Travelling Expenses (if any) £ 1.50

When applied for, 19  
 When received, 25.9.36

Mr. Murray  
 Surveyor to Lloyd's Register of Shipping.

CP

Im. 236. - Transfer.

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

Committee's Minute GLASGOW 8 JAN 1937

Assigned See Brk. Rpt. No. 20298



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