

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 13495

7 SEP 1936

Received at London Office

Date of writing Report 1st Sept. 1936 When handed in at Local Office

10 Port of Amsterdam

No. in Survey held at Amsterdam.

Date, First Survey 3rd March Last Survey 24 Aug 1936

Reg. Book.

Number of Visits 12

Single
on the ~~Port~~
Triple
Quadruple

Screw vessel

"SITALA"
Tanker for the Anglo Saxon Petroleum Co. Ltd.Tons { Gross 6218.03
Net 3602.48

Built at Belfast

By whom built Messrs Harland & Wolff Ltd. Yard No. 981 When built 1937

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

Oil Engines made at Amsterdam By whom made H. H. Kromhout Mot. fabriek Contract No. 7811 When made 1936

Generators made at By whom made Contract No. When made

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

OIL ENGINES, &c. Type of Engines Kromhout Diesel Engine H. S. 1 2 or 4 stroke cycle 2 Single or double acting Single

Maximum pressure in cylinders 40 h.p. 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.p. 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

Coupling as per Rule 110 mm Intermediate Shafts, diameter as per Rule 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. 1 & 2 1440 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 1 & 2 850 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 7 mm

Seamless, lap welded or riveted longitudinal joint Material Steel Range of tensile strength 44/50 h.p. Working pressure by Rules 15 h.p.

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 29/2/36 Receivers. 29/2/36 Separate Tanks

SPARE GEAR As per rule.

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

D. Goedkoop Jr.

Manufacturer.



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Lloyd's Register
Foundation
W1142-087

Dates of Survey while building { During progress of work in shops - - } March 3; April 4-17; May 9-20-27; June 8-18
 { During erection on board vessel - - - } July 9; Aug 14-21-24
 { Total No. of visits } 12.

Dates of Examination of principal parts—Cylinders 20/5/36 Covers 27/5/36 Pistons 9/5/36 Piston rods c

Connecting rods 20/5/36 Crank and Flywheel shaft 20/5/36 Intermediate shaft c

Crank and Flywheel shafts, Material S. M. Steel Identification Mark LLOYD'S C.H.L.P. No 2292 H. K. 30-5-36

Coupling Intermediate shafts, Material S. M. Steel Identification Marks LLOYD'S H. P. B. 1963 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 Harland & Wolff Ltd at Belfast for the purpose intended.

The engine has been efficiently installed on board the M.V. 'SITALA', and tried under working conditions with satisfactory results.

P. J. Fitzgerald
Glasgow

The amount of Fee ... £ 90.00 : When applied for, 19
 Travelling Expenses (if any) £ 4.00 : When received, 9.9.36

Surveyor to Lloyd's Register of Shipping

Committee's Minute GLASGOW 23 MAR 1937
 Assigned SEE ACCOMPANYING MACHINERY REPORT.