

4c.

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 13731

Received at London Office

-1 JUL 1936

of writing Report 24<sup>th</sup> June 1936 When handed in at Local Office

19

Port of

Amsterdam.

in Survey held at

Amsterdam

Date, First Survey

3<sup>rd</sup> March

Last Survey

10<sup>th</sup> June 1936

Book.

Number of Visits

Single

Triple

Quadruple

Screw vessel

"SEPIA"

Tanker for the Anglo Saxon Petroleum Co Ltd. Tons { Gross 6214  
Net 3620

Built at

New Castle on Tyne

By whom built

Wigham Richardson Ltd

Yard No.

1519

When built

1936

Owners Messrs Anglo Saxon Petroleum Co Ltd.

Port belonging to

London.

Engines made at

Amsterdam.

By whom made

H. M. Kromhout Mot. Fabriek

Contract No.

7765

When made

1936

Generators made at

Sluikerveer

By whom made

Messrs J. M. J. J.

Contract No.

-

When made

1936

No. of Sets

1

Engine Brake Horse Power

30

Nom. Horse Power as per Rule

12

Total Capacity of Generators

16

Kilowatts.

ENGINES, &amp;c.—Type of Engines Kromhout Diesel Engine H. S. 3 2 or 4 stroke cycle 1 Single or double acting Single

Maximum pressure in cylinders 40 k.g. Diameter of cylinders 110 mm. Length of stroke 275 mm. No. of cylinders 1 No. of cranks 1

Position 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 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 70 mm. shrunk Thickness around eyehole

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

as fitted 110 mm. as fitted Means of lubrication forced.

Is there a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Water cooled.

Are the cylinders fitted with safety valves Yes

Cooling Water Pumps, No. 1 a 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 a 850 liters per hour.

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

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

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

In 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 150 mm. thickness 7 mm.

Seamless, lap welded or riveted longitudinal joint Seamless. Material S.M. Steel. Range of tensile strength 44/50 k.g. Working pressure by Rules 15 k.g.

ELECTRIC GENERATORS:—Type G 340 No 19660

Pressure of supply 110 volts. Full Load Current 145 Amperes. Direct or Alternating Current Direct

Is an 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

Unit 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

ANS. Are approved plans forwarded herewith for Shafting. 29/2/36 Receivers. 29/2/36 Separate Tanks

(If not, state date of approval)

SHAFTING GEAR As per rule.

The foregoing is a correct description.

N.V. KROMHOUT MOTOREN FABRIEK

D. Goedkoop Jr.

Manufacturer.



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Foundation

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Dates of Survey while building { During progress of work in shops - March 3. April 4-17. May 20-26 June 15-18  
During erection on board vessel - - -  
Total No. of visits 7.

Dates of Examination of principal parts—Cylinders 14/5/36 Covers 16/5-8/6/36 Pistons 16/5/36 Piston rods ✓  
Connecting rods 17/4/36 Crank and Flywheel shaft 3/3-20/5/36 Intermediate shaft ✓

Crank and Flywheel shafts, Material S. M. Steel Identification Mark LLOYDS; C.H.L.P. No 1196; K.K. 20-5  
Coupling S. M. Steel Identification Marks LLOYDS; H.P.B. 1961; K.K. 17-4-36  
Intermediate shafts, Material S. M. Steel.

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 test were carried out on the water cooling spaces of cylinder jacket, covers 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. build by Messrs. Swan, Hunter, & Wigham Richardson, Ltd. for the purpose intended.

This Auxiliary Oil Engine has been satisfactory fitted on board the M/s. SEPIA, S.H. & W.R. yard No 1519.

A Watt  
Newcastle on Tyne.  
Oct 1936

The amount of Fee ... £ 90.00: When applied for, 19...

Travelling Expenses (if any) £ 4.00: When received, 19...  
10 Jul 1936

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 30 OCT 1936

Assigned

See NWC. 26. 91019



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