

Rpt. 4c.

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 15124

JUL -3 1938

JUL -6 1938

Date of writing Report 20 Jan 1938 When handed in at Local Office

Port of Amsterdam

No. in Survey held at Amsterdam

Date, First Survey 19th Nov.: Last Survey 19th Jan. 1938.

Number of Visits 12.

Single  
on the Twin  
Triple  
Quadruple

Screw vessel Tanker for the Anglo Saxon Petroleum Co Ltd.

Tons { Gross  
Net

Built at Newcastle-on-Tyne

By whom built Hawthorn &amp; Leslie

Yard No. ? When built

Owners Anglo Saxon Petroleum Co Ltd.

Port belonging to

Oil Engines made at Amsterdam

By whom made H. T. Kromhout Mot. Fabr. Eng.

Contract No. 8270. When made 1930.

Generators made at

By whom made D. Goedkoop Jr.

Contract No. When made

No. of Sets 1

Engine Brake Horse Power 30

Nom. Horse Power as per Rule 12

Total Capacity of Generators Kilowatts.

OIL ENGINES, &amp;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 kg/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 1100 kg. Means of ignition Compressor Kind of fuel used Diesel Oil.

Crank Shaft, dia. of journals as per Rule 2400.

as fitted 110 mm. Crank pin dia. 110 mm.

Crank Webs

Mid. length breadth 150 mm.

Thickness parallel to axis

Coupling

Flywheel Shaft, diameter

as per Rule 2400.

as fitted 110 mm.

Intermediate Shafts, diameter

as per Rule

as fitted

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 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 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 12 850 liters per hour.

Air Compressors, No.

No. of stages

Diameters

Stroke

Driven by

Scavenging Air Pumps, No.

Diameter

Stroke

Driven by

AIR RECEIVERS:—Have they been made under Survey

State No. of Report or Certificate

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 Seamless

Material S.S. steel

Range of tensile strength 4450 kg.

Working pressure by Rules 15 kg.

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 20/1/37

(If not, state date of approval)

Receivers 20/1/37

Separate Tanks

SPARE GEAR as per rule.

The foregoing is a correct description,

KROMHOUT MOTOREN FABRIEK

D. Goedkoop Jr. N.V.

Manufacturer.



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Foundation

002659-002666-0164



Dates of Survey while building { During progress of work in shops - - } 19-24-30 Nov: 6-7-8-10-11-13-14 Dec: 12-19 Jan.  
 { During erection on board vessel - - }  
 Total No. of visits 13.

Dates of Examination of principal parts—Cylinders 19/11/37 - 10/12/37 Covers 3/12/37 Pistons 22/12/37 Piston rods ✓  
 Connecting rods 24/11/37 - 10/12/37 Crank and Flywheel shafts 19/11/37 - 10/12/37 Intermediate shafts ✓  
 Crank and Flywheel shafts, Material S.M. Steel Identification Marks LLOYDS H.K. 10-12-37  
 Coupling Intermediate shafts, Material S.M. Steel Identification Marks LLOYDS H.K. 820 H.K. 19-1-38  
 Identification marks on Air Receivers LLOYDS No 1365; H.K. 4-6-37.

Is this machinery duplicate of a previous case Yes. If so, state name of vessel tankers Anglo Saxon Pet. Comp.  
 General Remarks (State quality of workmanship, opinions as to class, &c.) This Engine has been constructed under Special Survey in accordance with the Society's rules approved plan and Secretary's letters.

The material used in the construction was found in order and workmanship satisfactory.

Engine tested on makers test bench and found in a good working condition and is in my opinion suitable to be placed on board the tank vessel for the Anglo Saxon Petroleum Co Ltd. build by Messrs B & W Hawthorn & Leslie & Co Ltd at Newcastle on Tyne for the purpose intended.

This Engine has been efficiently installed on board MV Orphanella examined under working conditions & found satisfactory.

L. Pickett.

The amount of Fee ... £ 90.00 : When applied for, 2-2-1938  
 Travelling Expenses (if any) £ 1.00 : When received, 24-2-38

H. H. H. Surveyor to Lloyd's Register of Shipping.

Committee's Minute  
 Assigned

FRI 8 JUL 1938

See Nav. 76 96399



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This "W" executed, whatever entry in Commit

(Rpt. 10.)