

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 15151

Received at London Office

FEB 24 1938

pt. 4c.

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

Port of Amsterdam

Survey held at Amsterdam

Date, First Survey 19 Nov

Last Survey 16 Feb 1938

Number of Visits 14

Single on the Twin Triple Quadruple

Screw vessel Tanker for the Anglo Saxon Petroleum Co Ltd.

Tons Gross Net

built at Glasgow

By whom built Harland & Wolff Ltd.

Yard No 1008 When built 1938

runners Anglo Saxon Petroleum Co Ltd.

Port belonging to

Oil Engines made at Amsterdam By whom made H. Kromhout Mot. Fabr.

Contract No. 8180

When made 1938

Generators made at

By whom made

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

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

Maximum pressure in cylinders 40 kg/cm<sup>2</sup> Diameter of cylinders 110 mm Length of stroke 175 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 1180 kg Means of ignition Compression Kind of fuel used Diesel Oil

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 Crank pin dia. 110 mm Crank Webs Mid. length thickness 40 mm Thickness around eye hole

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

as fitted 110 mm Intermediate Shafts, diameter 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 1440 liters p. 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. Total cubic capacity 45 liters Internal diameter 150 mm thickness 4 mm

Seamless, lap welded or riveted longitudinal joint Seamless Material 1/2" steel Range of tensile strength 44/50 kg/cm<sup>2</sup> Working pressure by Rules 15 kg/cm<sup>2</sup>

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

(If not, state date of approval)

Receivers

Separate Tanks

SHAFTING. Are approved plans forwarded herewith for Shafting

Manufacturer.

The foregoing is a correct description,

KROMHOUT MOTOREN FABRIEK

D. Goedkoop Jr. N.V.

*[Signature]*



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W1168-0287



Dates of Survey while building { During progress of work in shops - - - } Nov: 19-24-30; Dec 8-10-12-14; Jan 12-19-26-29 Feb 3-8-10-12-14  
 { During erection on board vessel - - - }  
 Total No. of visits 14.

Dates of Examination of principal parts—Cylinders 19/11 - 24/11 Covers 6/12 - 29/11 Pistons 29/11 Piston rods ✓

Connecting rods 19/12 Crank and Flywheel shafts 19/11 - 10/12 Intermediate shafts ✓

Crank and Flywheel shafts, Material C.M. steel Identification Marks LLOYD'S NO 715 H.K. K.K. 10-12-37.

Coupling Intermediate shafts, Material S.M. steel Identification Marks LLOYD'S NO 811 H.K. K.K. 3-2-38

Identification marks on Air Receivers LLOYD'S TEST 50 cfm W.P. 25 cfm No 1353 K.K. 4-6-37.

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

General Remarks (State quality of workmanship, opinions as to class, etc.) 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 Harland & Wolff Ltd (Govan Shipyard) at Glasgow. Yard no 10089 for the purpose intended.

The amount of Fee ... £ 790.00

Travelling Expenses (if any) £ 13.00

When applied for,

21-2-1938

When received,

22-3-38

Don. L.L.S.

Surveyor to Lloyd's Register of Shipping.

WED 3 AUG 1938

Committee's Minute

Assigned

See fls 76 59977



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