

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 15137

Date of writing Report 5<sup>th</sup> Feb 1938 When handed in at Local Office 19 Port of Amsterdam Received at London Office 10 FEB 1938

No. in Survey held at Amsterdam Date, First Survey 19<sup>th</sup> Nov Last Survey 31<sup>st</sup> Jan 1938  
Reg. Book. m/s Doreasia Number of Visits 14

on the Single Triple Quadruple Screw vessel Tanker for the Anglo Saxon Petroleum Co Ltd. Tons Gross Net

Built at Goed Glasgow By whom built Messrs Leithgoms Ltd Yard No. 908 When built 1938

Owners Anglo Saxon Petroleum Co Ltd. Port belonging to London

Oil Engines made at Amsterdam By whom made M. H. Kromhout Mot. Fab. Cong Contract No. 8275 When made 1938

Generators made at Amsterdam By whom made J. Goedkoop Jr. Contract No. 8275 When made 1938

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

**OIL ENGINES, &c.**—Type of Engines Kromhout Diesel Engine H.S. 2 or 4 stroke cycle 1 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 320 mm Is there a bearing between each crank Yes

Revolutions per minute 390 Flywheel dia. 1100 mm Weight 1100 kg 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 shrunk

Coupling Flywheel Shaft, diameter as per Rule 110 mm Intermediate Shafts, diameter as per Rule 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 Yes

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

Air Compressors, No. 1 No. of stages 1 Diameters 150 mm Stroke 150 mm Driven by Electric

Scavenging Air Pumps, No. 1 Diameter 150 mm Stroke 150 mm Driven by Electric

**AIR RECEIVERS:**—Have they been made under Survey Yes State No. of Report or Certificate 1225

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

Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces None

Is there a drain arrangement fitted at the lowest part of each receiver Yes

High Pressure Air Receivers, No. 1 Cubic capacity of each 45 liters Internal diameter 250 mm thickness 7 mm

Seamless, lap welded or riveted longitudinal joint Seamless Material St. steel Range of tensile strength 44/50 kg/cm<sup>2</sup> Working pressure by Rules 25 kg/cm<sup>2</sup>

Starting Air Receivers, No. 1 Total cubic capacity 45 liters Internal diameter 250 mm thickness 7 mm

Seamless, lap welded or riveted longitudinal joint Seamless Material St. steel Range of tensile strength 44/50 kg/cm<sup>2</sup> Working pressure by Rules 25 kg/cm<sup>2</sup>

**ELECTRIC GENERATORS:**—Type Direct

Pressure of supply 220 volts. Full Load Current 136 Amperes. Direct or Alternating Current Direct

If alternating current system, state the periodicity 50 Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off Yes

Generators, are they compounded as per rule Yes is an adjustable regulating resistance fitted in series with each shunt field Yes

Are all terminals accessible, clearly marked, and furnished with sockets Yes

Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Yes Are the lubricating arrangements of the generators as per Rule Yes

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

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

PLANS. Are approved plans forwarded herewith for Shafting 28/1/37 Receivers 28/1/37 Separate Tanks Yes

SHAFTING As per rule.

The foregoing is a correct description,

KROMHOUT MOTOREN FABRIEK

D. Goedkoop Jr. N.V.

*[Signature]*

Manufacturer.



© 2020

Lloyd's Register Foundation

Dates of Survey while building { During progress of work in shops - - } Nov 19-24-30; Dec 6-7-8-10-22-23-24 Jan 12-19-27-31  
 { During erection on board vessel - - - }  
 Total No. of visits 14.

Dates of Examination of principal parts—Cylinders 19/11/37 24/11/37 Covers 6/12/37 Pistons 10/11/37 Piston rods  
 Connecting rods 30/11/37 - 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 LLOYD'S H.B. 2398 H.K. 16-12-37  
 Coupling Intermediate shafts, Material S.M. steel Identification Marks LLOYD'S H.K. 828 H.K. 19-1-38  
 Identification marks on Air Receivers LLOYD'S TEST 50 ATM. W.P. 25 ATM No 1351; H.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, &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 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 Loithgoms Ltd. at Port Glasgow for the purpose intended.

Plus engine now securely fitted on board, tested under working conditions. found satisfactory  
 Wm Gordon - Muclivie  
 Engineer

1m.57.—Transfer.  
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 90.00 : When applied for, 7-2-38  
 Travelling Expenses (if any) £ 1.00 : When received, 24-2-38

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

Committee's Minute GLASGOW 16 AUG 1938

Assigned SEE ACCOUNT AND MACHINERY REPORT.

