

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 13670

Date of writing Report 24th April 1936 When handed in at Local Office 19 Port of Amsterdam
 No. in Survey held at Amsterdam Date, First Survey 3rd March 1936 Last Survey 11th April 1936
 Reg. Book. M.S. Arivia Number of Visits 1
 on the Single Screw vessel Tanker for the Anglo-Saxon Petroleum Co Ltd. Tons { Gross Net
 Built at Port Glasgow By whom built Messrs Leithgans Ltd Yard No. 880 When built 1936
 Owners Anglo-Saxon Petroleum Co Ltd. Port belonging to London
 Oil Engines made at Amsterdam By whom made M. H. Kromhout Motoren Fab. Contract No. 7730 When made 1936
 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, &c.—Type of Engines Kromhout Diesel Engine type H.S. 2 or 4 stroke cycle 1 Single or double acting Single
 Maximum pressure in cylinders 40 k.g. 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
 Revolutions per minute 390 Flywheel dia. 1100 mm Weight 1180 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
Coupling as fitted 40 mm Intermediate Shafts, diameter as per Rule Thickness around eyehole
 Flywheel Shaft, diameter as fitted 40 mm Thickness of cylinder liners Poliner 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 & 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 & 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 150 mm thickness 4 mm

Seamless, lap welded or riveted longitudinal joint Seamless Material St. Steel Range of tensile strength 44/50 k.g. Working pressure by Rules 25 k.g.

ELECTRIC GENERATORS:—Type

Pressure of supply volts. Load Amperes. Direct or Alternating Current

If alternating current system, state frequency of periods per second

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off

Generators, do they comply with the requirements regarding rating are they compound wound

are they over compounded 5 per cent. , if not compound wound state distance between each generator

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

PLANS. Are approved plans forwarded herewith for Shafting 29/2/36 Receivers 29/2/36 Separate Tanks
 (If not, state date of approval)

SPARE GEAR Cts per rule.

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

Manufacturer.



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W335-0076

Dates of Survey while building { During progress of work in shops - - }
{ During erection on board vessel - - - }
Total No. of visits

March 3. April 4 - 6 - 7 - 14 - 17 - 18. 1936.

Dates of Examination of principal parts—Cylinders 3/3 - 4/4 Covers 4/4 - 6/4 Pistons 6/4 - 14/4 Piston rods ✓

Connecting rods 3/3 - 4/4

Crank and Flywheel shaft 3/3 - 4/4

Intermediate shaft

Crank and Flywheel shafts, Material S. M. Steel

Identification Mark LLOYD'S NO 751 C.H.L.P. K.K.4-4-36

Coupling

Intermediate shafts, Material S. M. Steel

Identification Marks LLOYD'S NO 1961 H.P.B. K.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 test were carried out on the water cooling spaces of cylinder jackets & 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 for the purpose intended.

How securely fitted on board
Wm. Gordon Muirhead
Engineer

The amount of Fee ... £ 90.00 :

When applied for,

19...

Travelling Expenses (if any) £ 3.00 :

When received,

30.4.19.36

Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 28 JUL 1936

Assigned See Grk Rpt. To. 20189



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