

19 OCT 1939

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 15100

JUN 16 1939

Received at London Office

t. 4c.
Date of writing Report 12 June 1939 When handed in at Local Office Amsterdam Port of Amsterdam
Date, First Survey 25 January Last Survey 24 May 1939
Number of Visits 11
on the Single Screw vessel "THIARA" Yard No. 1563 Tons { Gross _____ Net _____
on the Triple
on the Quadruple
Built at New Castle on Tyne By whom built Swan, Hunter & W. Richardson Yard No. 1563 When built 1929
Owners Anglo-Saxon Petroleum Co. Ltd. Port belonging to LONDON
Engines made at Amsterdam By whom made K. Kromhout 40 fab. Contract No. 0719 When made 1939
Generators made at Sunderland By whom made Sunderland Forge Co. Contract No. _____ When made _____
No. and diameter of Sets 1 Engine Brake Horse Power 32 Nom. Horse Power as per Rule 8 Total Capacity of Generators 20 Kilowatts.

ENGINES, &c.—Type of Engines Kromhout 2K S3 2 or 4 stroke cycle 2 Single or double acting Single
Maximum pressure in cylinders 45 kg Diameter of cylinders 170 mm Length of stroke 225 mm No. of cylinders 2 No. of cranks 2
Distance of bearings, adjacent to the Crank, measured from inner edge to inner edge 274 mm Is there a bearing between each crank Yes
Revolutions per minute 400 Flywheel dia. 1000 mm Weight 475 kg Means of ignition Solid magnet Kind of fuel used Diesel oil
Crank Shaft, dia. of journals as per Rule approved Mid. length breadth 150 mm Thickness parallel to axis —
as fitted 95 mm Crank pin dia. 95 mm Crank Webs Mid. length thickness 55 mm Thickness around eyehole —
Flywheel Shaft, diameter as per Rule — Intermediate Shafts, diameter as per Rule — Thickness of cylinder liners —
as fitted — as fitted —
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 Rotary 3200 l/h Is the sea suction provided with an efficient strainer which can be cleared within the vessel —
Lubricating Oil Pumps, No. and size 1 Rotary 225 l/h

COMPRESSORS, &c.—No. — No. of stages — Diameters — Stroke — Driven by —
Suctioning Air Pumps, No. — Diameter — Stroke — Driven by —
RECEIVERS:—Have they been made under Survey Yes State No. of Report or Certificate 1930
each receiver, which can be isolated, fitted with a safety valve as per Rule Yes
the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Cover
there a drain arrangement fitted at the lowest part of each receiver Yes

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. One Total cubic capacity 75 L Internal diameter 250 mm thickness 7 mm
seamless, lap welded or riveted longitudinal joint Seamless Material SAES Range of tensile strength 44.50 kg Working pressure by Rules approved 25 kg

ELECTRIC GENERATORS:—Type _____
Pressure of supply _____ volts. Full Load Current _____ Amperes. Direct or Alternating Current _____
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 _____
the generators are under 100 kw. full load rating, have the Makers supplied certificates of test _____ and do the results comply with the requirements _____
the generators are 100 kw. or over have they been built and tested under survey _____

APPROVED PLANS. Are approved plans forwarded herewith for Shafting E 22-3-30 Receivers E 22-3-30 Separate Tanks _____
(If not, state date of approval)

ARE GEAR _____

The foregoing is a correct description,
KROMHOUT MOTOREN FABRIEK
D. Goedkoop Jr. N.V.
Manufacturer.
Lloyd's Register Foundation

14888 07
Dates of Survey while building { During progress of work in shops - Jan 25 Feb 8-20 March 7-10 April 3-14-21 May 15-19-24
During erection on board vessel -
Total No. of visits

Dates of Examination of principal parts - Cylinders 14 April 15 May Covers 21 April 14 May Pistons 3-21 April Piston rods

Connecting rods 8 February 15 May Crank and Flywheel shafts 21 April May 15 Intermediate shafts

Crank and Flywheel shafts, Material SMS Identification Marks 3095 A.S. Lager's 4210. 21-4-29

Intermediate shafts, Material Identification Marks

Identification marks on Air Receivers 1420 Lager's 254 W.P. 254 K.K. 11-5-20

Is this machinery duplicate of a previous case Yes If so, state name of vessel HMS report No. 15607

General Remarks (State quality of workmanship, opinions as to class, &c.)
The Motor has been made under special survey to approved plans Secretary's letters and the Society's rules
Material duly tested, workmanship throughout good

The Motor has shipped to New Castle on Tyne and will be fitted aboard Messrs Swan, Hunter and Wigham Richardson Ltd No. 1

This Kromhout Oil Engine / Dynamo Lighting Set has been satisfactorily fitted on board the M.V. THIARA,
Swan Hunter & Wigham Richardson Yards

A. Watt
Newcastle on Tyne

Im 5.37. - Transfer.
(The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... 90-
Travelling Expenses (if any) 3-
When applied for, 15-1-1939
When received, as per letter from Mr. 8-7-1939

Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 13 OCT 1939
Assigned See New J.E. 97941