

Amsterdam report 15743

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 15011

t. 4c.

Received at London Office APR 13 1939

Date of writing Report 6 April 1939 When handed in at Local Office

Port of Amsterdam

AUG 10 1939

Survey held at Amsterdam

Date, First Survey 24 January Last Survey 20 March 1939

Number of Visits 11

on the ^{Single} ~~Triple~~ ~~Quadruple~~ Screw vessel "N.V. ONDINA"

Tons { Gross 6341 Net 3606

built at Amsterdam By whom built N.V. Ned dock & S^h Yard No. 71 When built 1939

owners N.V. Petroleum Mij. Lea Corona Port belonging to Gravenhage

Engines made at Amsterdam By whom made N.V. Kromhout Mot. Fabr. Contract No. 8712 When made 1939

generators made at Sluikwever By whom made Willem Smit & Co Contract No. 22332 When made 1938

No. of Sets one Engine Brake Horse Power 32 Nom. Horse Power as per Rule 8 Total Capacity of Generators 20 Kilowatts.

L ENGINES, &c.—Type of Engines Kromhout 2-K S-5 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

Span 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 Weight 475 kg Means of ignition Solid inject Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule approved as fitted 95 mm Crank pin dia. 95 mm Crank Webs Mid. length breadth 150 mm Thickness parallel to axis shrunk Mid. length thickness 55 mm Thickness around eyehole

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners

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 Rotary 3000 l 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

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 yes State No. of Report or Certificate 1711

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

Are the internal surfaces of the receivers be examined yes What means are provided for cleaning their inner surfaces cover

Is 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 S45 Range of tensile strength 44-52 kg Working pressure by Rules approved actual 25 kg

ELECTRIC GENERATORS:—Type Compound Pressure of supply 110 volts Full Load Current 182 Amperes Direct or Alternating Current Direct

Is an 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 yes

Are the generators, are they compounded as per rule yes is an adjustable regulating resistance fitted in series with each

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

Do 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

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

Are approved plans forwarded herewith for Shafting E 22.3.20 Receivers E 22.3.20 Separate Tanks

SHAFTING AND GEAR

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

(Signature)

Manufacturer.



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24/4/39

Dates of Survey while building { During progress of work in shops - - } Jan 24-25 Feb 10-21-28 March 4-6-7-13-17-28
 { During erection on board vessel - - - } 17th April.
 Total No. of visits 13

Dates of Examination of principal parts—Cylinders 4-11-7 March Covers 4-7 March Pistons 22-23 Feb Piston rods ✓
 Connecting rods 24 Jan 8 Feb Crank and Flywheel shafts 8 Feb 4 March Intermediate shafts 7 28 March
 Crank and Flywheel shafts, Material SMS Identification Marks 1704
 Intermediate shafts, Material ✓ Identification Marks H.K./H.P. - D-2-29
 Identification marks on Air Receivers 1711
 Capital 50 LPM
 KK 24-1-30

Is this machinery duplicate of a previous case Yes If so, state name of vessel W. Cecilia Am report 185-6

General Remarks (State quality of workmanship, opinions as to class, &c.)

The Motu has been made under special survey in accordance with the approved plans & Secretary's letter Workmanship throughout good
 This engine has been fitted on board and tried under full load condition

W. Gray

1m. 5. 37. - Transfer.
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... \$40- : When applied for, 12-4-1939
 Travelling Expenses (if any) \$6- : When received, 25-5-1939

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

Please see London Lh. 25. 5. 39
 TUE 15 AUG 1939

Committee's Minute

Assigned

See FF. machy rpl.



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