

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 18059
MAY 1953

Received at London Office

Date of writing Report 19 _____ When handed in at Local Office 19 _____ Port of Amsterdam

No. in Survey held at _____ Date, First Survey 17-12-52 Last Survey 13-5-1953
Reg. Book. _____ Number of Visits 3

Single on the Twin Triple Quadruple } Screw vessel "Pueparagam" Tons } Gross _____ Net _____

Built at WATERHUIZEN By whom built J. PATTJE Yard No. 217 When built 1953

Owners GOVERNMENT OF INDONESIA Port belonging to

Engines made at AMSTERDAM By whom made KROMHOUT MOTOREN FABRIEK Engine No. 13045 When made 1953

Generators made at SLIKKERVEER By whom made SMIT Generator No. 40219 When made 1953

No. of Sets ONE B.H.P. of each Set 40 M.N. of each Set as per Rule 8 Capacity of each Generator 25 Kilowatts

Set intended for essential services AUX

OIL ENGINES, &c.—Type of Engines HEAVY OIL ENGINE 4G.S.V. 108 2 or 4 stroke cycle 4 Single or double acting SINGLE

Maximum pressure in cylinders 55 KG/SQ. CM. Diameter of cylinders 108 M.M. Length of stroke 152.4 M.M. No. of cylinders 4 No. of cranks 4

Mean indicated pressure 7.7 KG/SQ. CM. Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 122 M.M.

Is there a bearing between each crank YES Moment of inertia of flywheel (16 m² or Kg.-cm.²) _____ Revolutions per minute 1000

Flywheel dia. _____ Weight _____ Means of ignition COMPRESSION Kind of fuel used DIESEL

Crank Shaft, { Solid forged as per Rule As App. dia. of journals _____ Crank pin dia. 73 M.M. Crank Webs Mid. length breadth 103.6 M.M. Thickness parallel to axis _____
Semi-built as fitted 82.55 M.M. Mid. length thickness 26.13 M.M. Thickness round eyehole _____
All built _____

Flywheel Shaft, diameter as per Rule _____ Generator armature, moment of inertia (16 m² or Kg.-cm.²) _____

Are means provided to prevent racing of the engine YES Means of lubrication FORCED Kind of damper if fitted

Are the cylinders fitted with safety valves NO Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

Sholing Water Pumps, No. and how driven 1- BELT Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 1- 600 LT/HR.

Air Compressors, No. ONE No. of stages TWO Diameters 95-110 M.M. Stroke 85 M.M. Driven by CLUTCH.

Exhausting Air Pumps or Blowers, No. How driven

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

(other than main engines) State full details of safety devices

Are the internal surfaces of the receivers be examined and cleaned

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

Working Air Receivers, No. Total cubic capacity Internal diameter thickness

Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure

ELECTRIC GENERATORS:—Type G-310

Pressure of supply 110 volts. Full Load Current 227 Amperes. Direct or Alternating Current DIRECT.

Is alternating current system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

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

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

Are the generators under 100 kw. full load rating, have the makers supplied certificates of test YES and do the results comply with the requirements YES

Are the generators are 100 kw. or over have they been built and tested under survey COPY OF CERTIFICATES & TEST DATA ATTACHED

Details of driven machinery other than generator BALLAST PUMP BELT DRIVEN NO 3702 CAP 35 M³/HR. COPY OF CERT. ATT.

ANS.—Are approved plans forwarded herewith for Shafting RETAINED FOR USE Receivers _____ Separate Tanks _____

Are Torsional Vibration characteristics if applicable been approved _____ Armature shaft Drawing No. _____

Are the spare gear required by the Rules been supplied _____

The foregoing is a correct description,

KROMHOUT MOTOREN FABRIEK
D. Goedkoop Jr., N.V. Amsterdam

Manufacturer.



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Lloyd's Register
Foundation

012522-012626-0217

DM
11/6/53

40. 18859.

Dates of Survey while building
During progress of work in shops - - 17/12/52 ; 23/12/52 ; 13/5/53
During erection on board vessel - - -
Total No. of visits 3

Dates of Examination of principal parts - Cylinders 23-12-52. Covers 17-12-52. Pistons 17-12-52. Piston rods ✓

Connecting rods 17-12-52. Crank and Flywheel shafts 17-12-52. Intermediate shafts ✓

Crank shaft
Material ELECTRO STEEL. Tensile strength 71.6 KC/SQ. M.M.
Elongation ON 2" 25%. Identification Marks LLOYDS N°232 G. J.D. 17-12-52 H.S 29-9-52

Flywheel shaft, Material ✓ Identification Marks ✓

Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case. YES If so, state name of vessel STANDARD TYPE.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This engine has been built under Special Survey in accordance with the Society's Rules, approved plans & Secretary's letters. The materials used examined & tested all as required with satisfactory results & the workmanship found good. Upon completion the engine was examined & tested on makers test bed under full load conditions, driving generator, air compressor & ballast pump with satisfactory results.

This set in my opinion eligible to merit the favourable consideration of the Committee.

Copy of Amsterdam certificate N° F4078 for crankshaft & copies of certificates for generator, compressor & pump attached hereto.

J. Dobbie

The amount of Fee ... F 90. : When applied for 19. 5 19. 53
Travelling Expenses (if any) £ff. : 1. : When received 19.

FRIDAY - 4 DEC 1953

Committee's Minute
Assigned See minute on hull fe.

J. Dobbie
Surveyor to Lloyd's Register of Shipping.
Lloyd's Register Foundation

4in. 5.62. - T. (MADE AND PRINTED IN ENGLAND)
(The Surveyors are requested not to write on or below the space for Committee Minutes.)