

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10925

Received at London Office

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

No. in Survey held at... Date, First Survey 17-12-52 Last Survey 20-5-1953 Number of Visits 3

on the Single Screw vessel M.V. INTAN Tons Gross... Net...

built at WATERHUIZEN By whom built GEBR. VAN DIEPEN Yard No. 924 When built 1953

Owners GOVERNMENT OF INDONESIA Port belonging to...

Engines made at AMSTERDAM By whom made KROMHOUT MOTOREN FABRIEK Engine No. 13049 When made 1953

Generators made at SLIKERVEER By whom made SMIT Generator No. 40224 When made 1953

Number of Sets 1 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 4 G.S.V. 108-2 or 4 stroke cycle 4 Single or double acting SINGLE

Maximum pressure in cylinders 55 kg/cm² Diameter of cylinders 108 mm Length of stroke 152.4 mm No. of cylinders 4 No. of cranks 4

Indicated pressure 7.7 kg/cm² Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 122 mm

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

Crank pin dia... Weight... Means of ignition COMPRESSION Kind of fuel used DIESEL

Crank Shaft, Solid forged dia. of journals... Crank pin dia 73 mm Crank Webs... Mid. length breadth 103.6 mm Thickness parallel to axis... Mid. length thickness 26.13 mm Thickness round eyehole...

Generator armature, moment of inertia (16 m² or Kg.-cm.²)

Means provided to prevent racing of the engine YES Means of lubrication FORCE 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

Driving 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

Compressors, No. 1 No. of stages 2 Diameters 95 - 110 mm Stroke 85 mm Driven by CRANK

Exhausting Air Pumps or Blowers, No. 1 How driven

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

Are full details of safety devices... YES

Are the internal surfaces of the receivers be examined and cleaned YES

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

High Pressure Air Receivers, No. 1 Cubic capacity of each... Internal diameter... thickness

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

Working Air Receivers, No. 1 Total cubic capacity... Internal diameter... thickness

Unless, 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 an alternating current system, state the periodicity YES 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

Are the generators 100 kw. or over have they been built and tested under survey YES

Details of driven machinery other than generator BALLAST PUMP BELT DRIVEN A/03704 CAPACITY 35W/HR

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

Are the Torsional Vibration characteristics if applicable been approved (State date of approval and name of previous duplicate case, if any)

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

008804 - 008811 - 0031

Dates of Survey while building
 During progress of work in shops - - 17/12/52; 23/12/52; 20/5/53
 During erection on board vessel - - -
 Total No. of visits

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

Connecting rods 23-12-52 Crank and Flywheel shafts 17-12-52 Intermediate shafts ✓

Crank shaft Material ELECTRO STEEL Tensile strength 64.2 KG/50 MM
 Elongation ON 2nd 31% Identification Marks LLOYD'S NO 232 J.D. 17-12-52

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 Rules, approved plans + Secretary's letters. The materials used examined + tested 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 is in my opinion eligible to merit the favourable consideration of the Committee.

Copies of Amsterdam certificate N° F4079 for crankshaft + copies of certificate for air compressor + ballast pump attached hereto.

J. Dobbie

The amount of Fee ... F 55 : When applied for 26.6 1953
 Travelling Expenses (if any) £ F 2. : When received 19

FRIDAY 19 FEB 1954

Committee's Minute
 Assigned See Ref. 46.

