

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 9821.

SEP 1953

Received at London Office.

Date of writing Report 12-9-1953. When handed in at Local Office 14-9-1953. Port of SINGAPORE

No. in Survey held at Singapore Date, First Survey 18-8-53. Last Survey 8-9-1953. Number of Visits 14

Single on the Twin Triple Quadruple Screw vessel "NASSAU" Tons Gross Not.

Built at Rochester N.Y. By whom built Odenbach S. B. Co. Yard No. When built 1944

Owners Ned Line Guinea Red Line Co. Port belonging to The Hague

Oil Engines made at Rochester By whom made Clark Bros Contract No. When made 1944

Generators made at Canton Ohio USA By whom made Hercules Motor Corporation Contract No. When made 1944

No. of Sets 2 Engine Brake Horse Power 76 M.N. as per Rule Total Capacity of Generators 120 Kilowatts.

Is Set intended for essential services. Yes

OIL ENGINES, &c.—Type of Engines Hercules Diesel Truck pattern 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders Diameter of cylinders 5 5/8 Length of stroke 6 No. of cylinders 6 No. of cranks 6

Mean indicated pressure Firing order in cylinders 1-5-3-6-2-4 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 5

Is there a bearing between each crank. Yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) Revolutions per minute 1200

Flywheel dia 16 Weight See sketch over leaf. Means of ignition Compression Kind of fuel used Distillate

Crank Shaft, dia. of journals as per Rule 4 1/2 Crank pin dia 3 5/8 Crank Webs Mid. length breadth Thinned SOLID Thickness parallel to axis Thickness round eyehole

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

Are means provided to prevent racing of the engine when declutched Governed 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 Yes

Cooling Water Pumps, No. Two Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size One - gear type To be examined

Air Compressors, No. One No. of stages Diameters Stroke Driven by clutch

Scavenging Air Pumps, No. Nil Diameter Stroke Driven by

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

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. Nil Cubic capacity of each Internal diameter thickness

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

Scavenging Air Receivers, No. Nil Total cubic capacity Internal diameter thickness

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

ELECTRIC GENERATORS:—Type Electric machinery mfg. Co. - 60KW - Totally enclosed

Pressure of supply 220 volts. Full Load Current 187 Amperes. Direct or Alternating Current Alternating

alternating current system, state the periodicity 60 Hz 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 No is an adjustable regulating resistance fitted in series with each shunt field regulation

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

If the generators are under 100 kw. full load rating, have the makers supplied certificates of test No and do the results comply with the requirements

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

List tails of driven machinery other than generator ONE F.W. PUMP - ONE S.W. PUMP - ONE AIR COMPRESSOR

ANS.—Are approved plans forwarded herewith for Shafting No Receivers No Separate Tanks

Have Torsional Vibration characteristics if applicable been approved No Armature shaft Drawing No. available

ARE GEAR To be verified

The foregoing is a correct description,

Manufacturer.



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Foundation

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

Dates of Examination of principal parts—Cylinders..... Covers..... Pistons..... Piston rods.....
 Connecting rods..... Crank and Flywheel shafts..... Intermediate shafts.....

Crank shaft { Material..... Tensile strength.....
 { Elongation..... Identification Marks.....

Flywheel shaft, Material..... Identification Marks.....

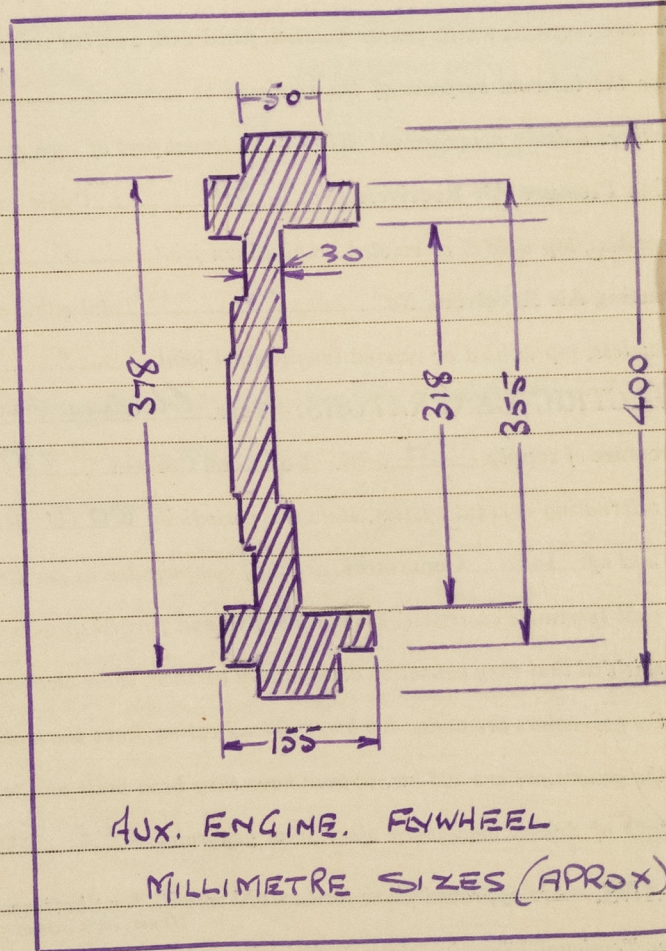
Identification marks on Air Receivers.....

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The two oil engine prime movers for the 60 KW Generators have been examined under working conditions and the starboard unit opened and examined in its entirety.

The quality of the workmanship is good.
 The port generator prime mover remains to be examined in its entirety.

The survey has been carried out in accordance with Rule requirements for vessels not built under Survey & Secretary's letters and in my opinion the vessel will be eligible for notation LMC (with date) on completion of the survey.



2m847-T. (MADE AND PRINTED IN ENGLAND)
 (The Surveyors are requested not to write on or below the space for Committee's Minute)

The amount of Fee ... £ : : { When applied for..... 19.....
 Travelling Expenses (if any) £ : : { When received..... 19.....

Committee's Minute.....
 Assigned..... See minute on rule fe. rpt.

TUESDAY 29 SEP 1953

R. J. Dunn.
 Surveyor to Lloyd's Register of Shipping.
 Lloyd's Register Foundation