

RECEIVED

NEWCASTLE-ON-TYNE, No. 107005

NOV 1949

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 17572

D.O.

Received at London Office 22 NOV 1949

Date of writing Report 10th Nov. 19 49 When handed in at Local Office 10th Nov. 19 49 Port of BRISTOL

No. in Survey held at Dursley Date, First Survey 9th September Last Survey 9th November 19 49
g. Book. Number of Visits 2

on the ^{Single} Twin ^{Triple} Screw vessel ^{Quadruple} M.V. "SLANEY" Tons { Gross..... Net.....

built at Walwood on Tyne By whom built G. Leblads (Successors) Ltd Yard No. 147 When built 1950

Engines made at Dursley By whom made R.A. Lister (Marine Sales) Ltd. Engine No. 60/31758 When made 1949

Generators made at By whom made Contract No. When made

of Sets Engine Brake Horse Power 38 M.N. as per Rule Total Capacity of Generators Kilowatts.

Set intended for essential services

ENGINES, &c.—Type of Engines Heavy Oil, Airless Injection, 4JPM 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 800lbs Diameter of cylinders 4 1/2" Length of stroke 5 1/2" No. of cylinders 4 No. of cranks 4

Firing order in cylinders Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 14.5/16"

Where a bearing between each crank No Moment of inertia of flywheel (16 m² or Kg.-cm.²) Revolutions per minute 1100

Wheel dia 26" Weight 250lbs Means of ignition compression Kind of fuel used heavy oil

Crank Shaft, dia. of journals 3" Crank pin dia. 3" Crank Webs Mid. length breadth 4 1/2" Thickness parallel to axis
as fitted 3" Mid. length thickness 3 1/2" shrunk Thickness round eyehole

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

Means provided to prevent racing of the engine when declutched Yes Means of lubrication Forced Kind of damper if fitted

Are the cylinders fitted with safety valves ? Are the exhaust pipes and silencers water cooled ~~XXXXXXXXXXXXXXXXXXXX~~ Yes

Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size

Compressors, No. No. of stages Diameters Stroke Driven by

Receiving Air Pumps, No. Diameter Stroke Driven by

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

Each receiver, which can be isolated, fitted with a safety valve as per Rule

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

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

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

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

Low Pressure Air Receivers, No. Total cubic capacity Internal diameter thickness

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

ELECTRIC GENERATORS:—Type

Voltage of supply volts Full Load Current Amperes Direct or Alternating Current

For an 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 Generators, are they compounded as per Rule is an adjustable regulating resistance fitted in series with each shunt field

Are all terminals accessible, clearly marked, and furnished with sockets Are they so spaced

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

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

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

List of driven machinery other than generator

Plans.—Are approved plans forwarded herewith for Shafting Receivers Separate Tanks

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

CRANK GEAR 1 inlet & 1 exhaust valve assembly complete, 4 valve springs, 2 fuel injector assemblies complete,

1 piston & 1 scrape rings, 1 gudgeon pin & bush, 1 bottom end bearing with bottom nuts, 4 tappet assemblies,

worked nuts & bolts.

The foregoing is a correct description,
P.P. R. A. LISTER (MARINE SALES) LTD.

Manufacturer.



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Lloyd's Register
Foundation

003712-003719-0060

Dates of Survey while building { During progress of work in shops - -) 9.9.49 9.11.49
 { During erection on board vessel - -)
 Total No. of visits 2

Dates of Examination of principal parts—Cylinders 9.9.49 Covers _____ Pistons 9.9.49 Piston rods _____

Connecting rods 9.9.49 Crank and Flywheel shafts - - Intermediate shafts _____

Crank shaft { Material Steel Tensile strength 59.3 Kg/cm² ✓
 { Elongation 33% ✓ Identification Marks 70324

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 _____

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Auxiliary Oil Engine has been built under Special Survey. Water jackets tested with hydraulic pressure 100 lbs. per sq. inch and found sound and tight. The workmanship and materials have been found good. Crankshaft taken from Makers' tested stock. After assembly the engine examined during a full load test bed running trial of several hours duration; governor tried and found satisfactory.

Identification Marks M.3207 Engine made to the order of Messrs. Clelands (Successors) Ltd.

SURVEY OF MACHINERY.
NEWCASTLE-ON-TYNE

This machine has been efficiently installed on board Clelands N°147 for purposes of driving electric generator, and examined under working conditions with satisfactory results.

A. Nuttall
 SURVEYOR TO LLOYD'S REGISTER,
 NEWCASTLE-ON-TYNE.

The amount of Fee ... £ 4 : 0 : 0 { When applied for 19
 Travelling Expenses (if any) £ 1 : 0 : 0 { When received 19

Committee's Minute _____
 Assigned S. F. E. Moby. rpt.

J. Brooke Smith
 Surveyor to Lloyd's Register of Shipping.
 Lloyd's Register Foundation

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