

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 92627

5 MAY 1928

Received at London Office - 5 MAY 1928

of writing Report

When handed in at Local Office - 5 MAY 1928

Port of London

in Survey held at Bedford

Date, First Survey 24th November 1927 Last Survey 28th April 1928

Number of Visits

on the Single Twin Triple Quadruple Screw vessel

"KARAMEA"

Tons { Gross 8281
Net 5052

built at Glasgow By whom built Fairfield S.B. & E. Co. Ltd. Yard No. 626 When built 1928
by Jimm. Shaw, Swill & Albion Co. Ltd.

Engines made at Bedford By whom made Jimm. W. H. Allen Sons & Co. Contract No. 78015/1/2 When made 1928

Generators made at Bedford By whom made Jimm. W. H. Allen Sons & Co. Contract No. 78019/1/2 When made 1928

of Sets 4 Engine Brake Horse Power 402 each 1608 total Nom. Horse Power as per Rule 460 total Total Capacity of Generators 1100 Kilowatts.

ENGINES, &c.—Type of Engines Diesel (Burmester-Kain) 4 stroke cycle Yes Single or double acting S.A.

Maximum pressure in cylinders 500 lbs/sq Diameter of cylinders 350^{mm} Length of stroke 470^{mm} No. of cylinders 6 No. of cranks 6

No. of bearings, adjacent to the Crank, measured from inner edge to inner edge 400^{mm} Is there a bearing between each crank Yes

Revolutions per minute 300 Flywheel dia. 1800^{mm} Weight 7830 lbs. Means of ignition Compression Kind of fuel used Diesel

Crank Shaft, dia. of journals as per Rule 189^{mm} Crank pin dia. 210^{mm} Mid. length breadth 310^{mm} Thickness parallel to axis SOLID FORGED

as fitted 210^{mm} Crank Webs 105^{mm} Mid. length thickness 105^{mm} Thickness around each bolt

Wheel Shaft, dia. as per Rule CRANK SHAFT. Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 28^{mm}

governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Mechanical Grease Engine driven

the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

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

Lubricating Oil Pumps, No. and size Driven off Engine

Compressors, No. 4 No. of stages 3 Diameters 292x260x57^{mm} Stroke 214^{mm} Driven by Crank on Shaft

Exhausting Air Pumps, No. — Diameter — Stroke — Driven by —

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Fusible plug

the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Ends portable

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

Pressure Air Receivers, No. 4 Cubic capacity of each 90 litres Internal diameter 9 3/4" thickness 3/8"

less, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 29/33 Working pressure by Rules 1026 lbs/sq

Exhausting Air Receivers, No. — Total cubic capacity NONE Internal diameter — thickness —

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

ELECTRIC GENERATORS:—Type Open.

Pressure of supply 220 volts. Load 1260 Amperes. Direct or Alternating Current Direct

Alternating current system, state frequency of periods per second —

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes

Generators, do they comply with the requirements regarding rating Yes are they compound wound Yes

Are they over compounded 5 per cent Level compounding If not compound wound state distance between each generator

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

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

(If not, state date of approval)

GEAR

As per attached List on Rpt. of M/r Laranaki
Jimm. Allen Sons & Co. No. 78001

The foregoing is a correct description,

W.G. Allen

Manufacturer.

W.G. ALLEN SONS & COMPANY LIMITED.



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003013-003017-0116

Dates of Survey while building { During progress of work in shops - - 1927. Nov. 24, 28 Dec. 8, 20, 23 1928. March 1, 3, 5, 7, 12, 14, 19, 23, April 2, 4, 13, 19, 24, 28
During erection on board vessel - - -
Total No. of visits 19 partial = 7 full

Dates of Examination of principal parts—Cylinder March 15, 12, 14, 23 Cover March 3, 12, 14, 23 Piston March 19 April 4, 19 Piston rods ✓

Connecting rods 24-11-27, 28-11-27, 8-12-27, 23-12-27 Crank and Flywheel shaft 14-3-28, 12-3-28 Intermediate shaft ✓

Crank and Flywheel shaft, Material Steel Identification Mark SEE BELOW. Identification Marks

Is this machinery duplicate of a previous case Yes If so, state name of vessel M/V "TARANAKI"

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

CRANK SHAFTS. Identification marks:-

ENG. A. LLOYDS
J.S.
1285
27-1-28

ENG. B. J.S.
LLOYDS
1296
15-2-28

ENG. C. LLOYDS
J.S.
1297
29-2-28

ENG. D. 1299
LLOYDS
A
6-3-28

This Machinery has been constructed under Special Survey in accordance with approved plans and Rule requirements. The Workmanship and Materials, so far as can be seen, are good and satisfactory bench trials have been carried out under survey.

The four sets which are numbered 78015/A/B/C/D have been despatched to Glasgow where they are to be installed and, in my opinion, will be eligible for inclusion in the Classification and record of T.M.C. of the vessel.

These gun mountings have now been fitted on board the above vessel.

W. Lane.

Glasgow.

24.8.28

The amount of Fee ... £ 46.0-0

When applied for,
5 MAY 1928

Travelling Expenses (if any) £ 10.12 2

When received,

10/5/28

Arthur D. Palmer.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 4 SEP 1928

Assigned

See Gls. Rpt 48326



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