

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 92049

24 NOV 1927

Received at London Office

21 MAR 1928

Date of writing Report 24 NOV 1927 When handed in at Local Office

19 Port of London

No. in Survey held at Bedford Date, First Survey Jan 14th 1927 Last Survey 21st NOVEMBER 1927

Reg. Book. on the Single Screw vessel M/V Deido Tons } Gross _____ Net _____

Built at Adrossan By whom built Adrossan Drydock Yard No. 337 When built 1927

Owners Elder Dempster & Co. Ltd. Port belonging to London

Oil Engines made at Bedford By whom made Jess. H. H. Allen Sons Contract No. 6604/9/27 When made 1927

Generators made at Bedford By whom made do Contract No. 6604/1/27 When made 1927

No. of Sets 3 Engine Brake Horse Power 300 each Nom. Horse Power as per Rule 86 Total Capacity of Generators 97 Kilowatts.

OIL ENGINES, &c. Type of Engines Diesel (Burmester Main) 2 or 4 stroke cycle 4 Single or double acting S.A.

Maximum pressure in cylinders 500 lbs/sq Diameter of cylinders 300 mm Length of stroke 430 mm No. of cylinders Two No. of cranks Two

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 360 mm Is there a bearing between each crank yes

Revolutions per minute 300 Flywheel dia. 1600 mm Weight 4.3 Tons Means of ignition Compression Kind of fuel used Diesel Oil

Crank Shaft, dia. of journals as per Rule 166 mm as fitted 180 mm Crank pin dia. 180 mm Crank Webs Mid. length breadth 230 mm Mid. length thickness 100 mm Thickness parallel to axis SOLID FORGED

Flywheel Shaft, diameter CRANK SHAFT Intermediate Shafts, diameter as per Rule ✓ as fitted ✓ Thickness of cylinder liners 27 mm

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Forced, geared pumps.

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

Cooling 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 One geared pump driven from each engine.

Air Compressors, No. Three No. of stages Three Diameters 78/285/318 mm Stroke 220 mm Driven by Crank Shaft.

Scavenging Air Pumps, No. _____ Diameter _____ Stroke _____ Driven by _____

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

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

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

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

Seamless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 29/33 7/8 Working pressure by Rules 102.6 lbs/sq

Starting Air Receivers, No. _____ 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 Open compound wound with Interpoles

Pressure of supply 220 volts. Load 295 Amperes. Direct or Alternating Current Direct

If 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. yes, if not compound wound state distance between each generator _____

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

PLANS. Are approved plans forwarded herewith for Shafting No, retained for duplication Receivers ✓ Separate Tanks ✓

SPARE GEAR

As per attached List.
4x/397

The foregoing is a correct description,
for W.H.ALLEN SONS & COMPANY LIMITED

Manufacturer.

Allen



© 2020

Lloyd's Register Foundation

005710-005726-0185

Dates of Survey while building { During progress of work in shops - Jan. 14 March 9 June 30 July 14, 27 Aug. 13, 18, 29 Sep. 8, 15, 27 Oct. 3, 11, 31 Nov. 21.
 { During erection on board vessel - - -
 Total No. of visits - 14 partial = 4 full.

Dates of Examination of principal parts - Cylinders 14-7-27; 27-7-27 18-8-27, 27-9-27
 Covers 29-7-27; 8-9-27 21-11-27 Pistons 3-10-27 Piston rods ✓
 Connecting rods 14-1-27; 9-3-27 Crank and Flywheel shaft 14-7-27; 3-10-27 Intermediate shaft ✓

Crank and Flywheel shaft, Material Steel Identification Mark See below
 Intermediate shaft, Material See below Identification Marks
 Is this machinery duplicate of a previous case Yes If so, state name of vessel "British Helios"

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

CRANK SHAFTS IDENTIFICATION MARKS.

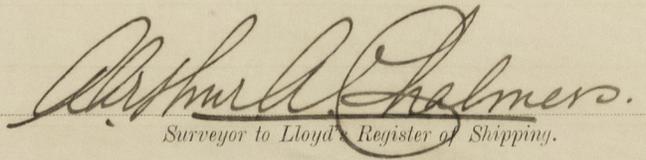
ENG. A.		ENG. B.		ENG. C.	
9CB	x81	9CB	x81	TEST 620	
1192	59	1193	60	LLOYDS 7682	
LLOYDS	MSTCo	LLOYDS	MSTCo	4-3-27	
29-4-27		20-5-27		J.P.	
				14-7-27	
				LR	

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 three sets which are numbered K61601/A/B/C 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 + M.C. of the vessel.

1m. 7.28 - Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee ... £ 8-12-0
 Travelling Expenses (if any) £ 6-16-3
 When applied for, 24 NOV 1927
 When received, 19...


 Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 20 MAR 1928
 Assigned See Accompanying Machy Report

