

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 20299

OCT -6 1937

JUN -7 1938

Date of writing Report 5.10.37 When handed in at Local Office 5.10.37 Port of Trinidad
 No. in Survey held at Lincoln Date, First Survey 30.11.1936 Last Survey 30.9.1937
 Reg. Book. Number of Visits 11

Single
on the Twin
Triple
Quadruple } Screw vessel M. 7. "Opalia" Tons { Gross 6195
 Net 3596
 Built at Amsterdam By whom built Nederlandsche Stoom Maatschappij Yard No. 604 When built 1937
 Owners Anglo-Saxon Petroleum Co. Port belonging to
 Oil Engines made at Lincoln By whom made Auston & Hornsby, Ltd ENG. Contract No. 182786 When made 1937
 Generators made at By whom made Contract No. When made
 No. of Sets 1 Engine Brake Horse Power 60 Nom. Horse Power as per Rule 18.6 Total Capacity of Generators ✓ Kilowatts.

OIL ENGINES, &c.—Type of Engines 3 VCRZ, Airless Injection Solid Starting 2 or 4 stroke cycle 4 Single or double acting Single
 Maximum pressure in cylinders 400 Diameter of cylinders 8" Length of stroke 10 3/4" No. of cylinders 3 No. of cranks 3
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 9 1/8" Is there a bearing between each crank Yes
 Revolutions per minute 450 Flywheel dia. 3'-4" Weight 19 lbs. Means of ignition Compression Kind of fuel used Heavy Oil
 Crank Shaft, dia. of journals as per Rule Approved as fitted 6" Crank pin dia. 4 3/4" Crank Webs Mid. length breadth 8" Thickness parallel to axis ✓
 as fitted 6" Mid. length thickness 2 1/2" Thickness around eyehole ✓
 Flywheel Shaft, diameter as per Rule Approved as fitted 6" Intermediate Shafts, diameter as per Rule ✓ as fitted ✓ Thickness of cylinder liners 3/4"
 Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Forced
 Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Water
 Cooling Water Pumps, No. One Is the sea suction provided with an efficient strainer which can be cleared within the vessel ✓
 Lubricating Oil Pumps, No. and size One, geared
 Air Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓
 Scavenging Air Pumps, No. ✓ Diameter ✓ Stroke ✓ Driven by ✓

AIR RECEIVERS:—Have they been made under Survey ✓ 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. ✓ Cubic capacity of each ✓ Internal diameter ✓ thickness ✓
 Seamless, lap welded or riveted longitudinal joint ✓ Material ✓ Range of tensile strength ✓ Working pressure by Rules ✓
 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 ✓
 Pressure of supply ✓ volts. Full Load Current ✓ Amperes. Direct or Alternating Current ✓
 If alternating current system, state the periodicity ✓ Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on 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 or shielded that they cannot be accidentally earthed, short circuited, or touched ✓ 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 ✓ and do the results comply with the requirements ✓
 If the generators are 100 kw. or over have they been built and tested under survey ✓

PLANS. Are approved plans forwarded herewith for Shafting 11-11-32 Receivers ✓ Separate Tanks ✓
 (If not, state date of approval)

SPARE GEAR As per Rule requirements. ✓

Auston & Hornsby, Limited,
 The foregoing is a correct description.

J. L. Lough 30/9/37
 Oil & Gas Engines Dept.

Manufacturer.



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Lloyd's Register
Foundation

011330-011340-0231

Dates of Survey while building
During progress of work in shops - - 1936 Nov 30. Dec 14 1937 Jan 18. 21. Feb 1. May 3 Jun 24 Jul 1 Aug 24 Sep 23. 30
During erection on board vessel - - -
Total No. of visits 11

Dates of Examination of principal parts—Cylinders 23-9-37 Covers 23-9-37 Pistons 23-9-37 Piston rods ✓
Connecting rods 18-1-37 Crank and Flywheel shafts 23-9-37 Intermediate shafts ✓

Crank and Flywheel shafts, Material Steel Identification Marks 325/E-23-9-37 A8

Intermediate shafts, 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 engine has been built under special survey in accordance with the Rules and approved plans.
The materials and workmanship are good.
Running tests have been carried out at the Maker's works with satisfactory results.
The engine has been despatched to Amsterdam to the order of Nederlandsche Dok, Maatschappij.
Engine fitted satisfactorily and tried under full loaded condition and found in order.

M. M. M. M.

1m.537.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee Minute.)

075119/19.6 984. 36/10.1158

The amount of Fee ...
Travelling Expenses (if any) ...
When applied for, ...
When received, ...

Surveyors to Lloyd's Register of Shipping.

Committee's Minute

Assigned

FRI. 24 JUN 1938

See Amos 7.6. 15288



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Rpt. 13.

Date of writing

No. in Reg. Book.

Built at

Owners

Electric L

Is the Vessel

System of

Pressure of

Direct or A

If alternating

Has the Auto

Generators,

are they over

Where more t

series with each

approved

Have certificate

Are all termin

short circuited,

Position of

in way of the

woodwork or ol

are the generato

Earthing, are

in metallic con

a fuse on each

Switchboard

injury and dam

horizontally fro

materials

is it of an appro

non-hygroscopic

type

omnibus bars

"off" position

switches

Are turbine driv

fire-resisting mat

voltmeters

do these comply u