

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 949

NOV 1945

Received at London Office

Date of writing Report JAN. 18, 45 when handed in at Local Office

19 Port of CHICAGO, ILLINOIS

No. in Reg. Book. Survey held at BELOIT, WISCONSIN

Date, First Survey NOVEMBER 13 Last Survey JANUARY 11 19 45

Number of Visits 4

Single  
on the Twin  
Triple  
Quadruple

Screw vessel

TRANSPORT FERRIES LST (3) 3519

Tons (Gross  
(Net)

Built at Montreal, Que.

By whom built Canadian Vickers Limited

Yard No. 207

When built 1945

Owners Port belonging to

Oil Engines made at BELOIT, WISCONSIN

By whom made FAIRBANKS MORSE &amp; COMPANY

ENG. NO. 863478 When made 1945

Generators made at BELOIT, WISCONSIN

By whom made FAIRBANKS MORSE &amp; COMPANY

GEN. NO. X-67317 When made 1945

No. of Sets 1 Engine Brake Horse Power 100 Nom. Horse Power as per Rule 17.6 Total Capacity of Generators 60 Kilowatts.

OIL ENGINES, &amp;c.—Type of Engines AUXILIARY VERTICAL DIESEL 2 or 4 stroke cycle 4 Single or double acting SINGLE

Maximum pressure in cylinders 800 Diameter of cylinders 5 1/2" Length of stroke 7 1/2" No. of cylinders 6 No. of cranks 6

M.I.P. 98.8

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 5.75"

Is there a bearing between each crank YES

Revolutions per minute 1000

Flywheel dia. 21.75"

Weight 275 LBS.

Means of ignition COMPRESSION

Kind of fuel used FUEL OIL

Crank Shaft, dia. of journals as per Rule 3.1"

as fitted 5.5"

Crank pin dia. 3.6"

Crank Webs

Mid. length breadth 6.5"

Thickness parallel to axis

Flywheel Shaft, diameter as fitted

Intermediate Shafts, diameter as fitted

Thickness of cylinder liners

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

Cooling Water Pumps, No. 1/54 GPM

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

Lubricating Oil Pumps, No. and size 1 - 19 GPM

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 COMPOUND WOUND, PIPE VENTILATED

Pressure of supply 225 volts. Full Load Current 267 Amperes. Direct or Alternating Current D.C.

If alternating current system, state the periodicity

Has the Automatic Governor been tested and found as per rule when full load is suddenly

thrown on and off YES

Generators, are they compounded as per rule

YES

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

If the generators are under 100 kw. full load rating, have the Makers supplied

certificates of test YES

and do the results comply with the requirements

YES

If the generators are 100 kw. or over have they been

built and tested under survey

PLANS. Are approved plans forwarded herewith for Shafting

Receivers

Separate Tanks

(If not, state date of approval)

SPARE GEAR

SUPPLIED AS REQUIRED BY THE RULES.

The foregoing is a correct description.

SIGNED: E. J. Fish, Ass't. Chief Inspector for Manufacturer.



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Lloyd's Register  
Foundation



NOVEMBER 13, DECEMBER 11, 15, AND JANUARY 11.

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—Cylinder **DEC. 11, 1944** Covers **DITTO** Pistons **DITTO** Piston rods  
 Connecting rods **DITTO** Crank and Flywheel shafts **DITTO** Intermediate shafts  
 Crank and Flywheel shafts, Material **STEEL** Identification Marks **NG-460 - I-56**  
 Intermediate shafts, Material Identification Marks  
 Identification marks on Air Receivers

ENGINE NO.

Is this machinery duplicate of a previous case **848082** If so, state name of vessel

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

THE ABOVE MENTIONED AUXILIARY DIESEL ENGINE IS BUILT TO THIS SOCIETY'S SPECIAL SURVEY REQUIREMENTS OF TESTED MATERIALS AND IN ACCORDANCE WITH APPROVED PLANS.

ON THE 15th DAY OF DECEMBER, 1944, FULL RUNNING TESTS WERE CARRIED OUT IN ACCORDANCE WITH THE ENGINE MAKER'S STANDARD PRACTICE. THE ENGINE WAS OPERATED AT LOW, INTERMEDIATE, FULL, AND OVERLOAD BREAK TEST LOADS, UNDER GOVERNOR CONTROL, WITH SATISFACTORY RESULTS.

ON COMPLETION THE ENGINE NO. 863478 MOUNTED ON A STEEL SUB BASE AND DIRECT COUPLED TO 60 K.W.

GENERATOR NO. X-67317 WAS TESTED FOR ALIGNMENT AND FOUND SATISFACTORY.

IN MY OPINION THIS GENERATOR SET IS SUITABLE FOR USE ON A VESSEL CLASSED OR INTENDED FOR CLASSIFICATION WITH THIS SOCIETY.

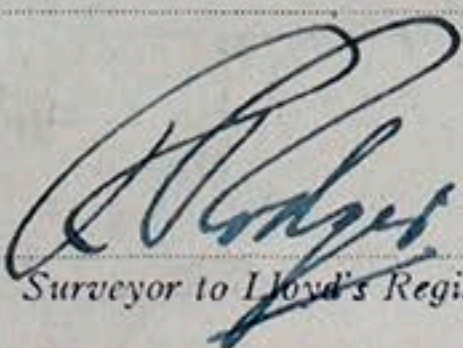
ATTACHED HEREWITH REPORTS 7b and 10; CRANKSHAFT FORGING REPORT SAME AS ENGINE NO. 848082.

THIS GENERATOR SET HAS BEEN SHIPPED TO CANADIAN VECKERS, LTD., MONTREAL, QUEBEC, CANADA.

The amount of Fee £ **75.00**

Travelling Expenses (if any) £ **9.50**

When applied for,  
**Jan. 17 1945**  
 When received,  
 19

  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

**FRI. 21 DEC 1945**

Assigned

*Sir F.E. machy. rph.*



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{ During erection on board vessel --- }  
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The amount of Fee

£ 75.00

When applied for,  
Jan. 17 1945

Travelling Expenses (if any)

£ 9.50

When received,  
19

Committee's Minute

FRI. 21 DEC 1945

Assigned

Sue R.E. machy. rph.

LR-FAF-TB16-64

Rpt. 4c.

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No. in Survey Reg. Book.

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Owners

Oil Engines made

Generators made

No. of Sets

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M.I.P.  
Span of bearings,

Revolutions per

Crank Shaft, di

Flywheel Shaft

Is a governor or

Are the cylinders

Cooling Water

Lubricating Oil

Air Compresso

Scavenging Air

AIR RECEIV

Is each receiver,

Can the internal

Is there a drain

High Pressure

Seamless, lap weld

Starting Air Re

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