

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

16571 -
No. 2863

Spec. 15-3-38.

21-3-38

Received at London Office

MAY -9 1938

Report 9th hand 1937 When handed in at Local Office 24-3-1937

Port of Southampton & Halifax N.S.

Survey held at Yarmouth, Nova Scotia & Halifax, N.S.

Date, First Survey 11-12-36 + 14-6-37. Last Survey Aug 1st 1938

Number of Visits 2 April, 8 May

Single
Twin
Triple
Quadruple

Screw vessel

"Venture"

Tons { Gross 183
Net 124

Halifax, N.S.

By whom built Montreal S.B.C. Co.

Yard No. 58 When built 1937

at Service of Canada (Department of National Defence)

Port belonging to (Hull)

made at Yarmouth

By whom made Potters Ltd.

Contract No 223248 When made 1937

made at

By whom made Crompton Parkinson Ltd.

Contract No F72A3520 When made 1937

Engine Brake Horse Power 8 Nom. Horse Power as per Rule Total Capacity of Generators 2 1/2 Kilowatts.

INES, & Co. Type of Engines

Atomic Diesel

2 or 4 stroke cycle 2 Single or double acting single

Pressure in cylinders 630 lb/sq. in. Diameter of cylinders 4 3/4

Length of stroke 6 1/4 No. of cylinders One No. of cranks One

Spacings, adjacent to the Crank, measured from inner edge to inner edge 8 1/8

Is there a bearing between each crank

Revolutions per minute 700

Flywheel dia. 18"

Weight 134 tons

Means of ignition Compression

Kind of fuel used Light oil

as per Rule 1/2"

Crank pin dia. 2 9/16"

Mid. length breadth 3 3/8

Thickness parallel to axis

as fitted 2 1/2"

Crank Webs

Mid. length thickness 1 13/32

shrunk

Thickness around eyehole

as per Rule

Intermediate Shafts, diameter

as per Rule

Thickness of cylinder liners

as fitted

as fitted

or other arrangement fitted to prevent racing of the engine when declutched

Means of lubrication Mechanical

ers fitted with safety valves

Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

ter Pumps, No. One rotary

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

Oil Pumps, No. and size

ssors, No. One

No. of stages One

Diameters

Displacement 7 1/4 cu ft/minute

Stroke

Driven by Engine

Air Pumps, No.

Diameter

Stroke

Driven by

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

al surfaces of the receivers be examined

What means are provided for cleaning their inner surfaces

n arrangement fitted at the lowest part of each receiver

re Air Receivers, No.

Cubic capacity of each

Internal diameter

thickness

welded or riveted longitudinal joint

Material

Range of tensile strength

Working pressure by Rules

Receivers, No.

Total cubic capacity

Internal diameter

thickness

welded or riveted longitudinal joint

Material

Range of tensile strength

Working pressure by Rules

GENERATORS:—Type

Crompton + Parkinson

Supply 110 volts. Load 22.7

Amperes. Direct or Alternating Current Direct

current system, state frequency of periods per second

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

do they comply with the requirements regarding rating

are they compound wound

compounded 5 per cent.

, if not compound wound state distance between each generator

regulating resistance fitted in series with each shunt field

Are all terminals accessible, clearly marked, and furnished with sockets

ed or shielded that they cannot be accidentally earthed, short circuited, or touched

Are the lubricating arrangements of the generators as per Rule

re approved plans forwarded herewith for Shafting

(If not, state date of approval)

Receivers

Separate Tanks

REAR

1 auxiliary engine generator piston complete

4 cylinder head water joints

2 cylinder head cover joints

2 bearings complete

1 set connecting rod equipment complete

8 piston rings (plain)

2 piston rings (scraper)

1 atomiser complete

1 set compressor rings. These spares are for both auxiliary engines.

foregoing is a correct description,

Report signed at Yarmouth

Manufacturer.



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010150-010162-0106

Dates of Survey while building { During progress of work in shops - - 1937
 { During erection on board vessel - - - June 19th, July 21st, Sept. 15th, Oct 20th, Nov 1st and 2nd, Dec. 13th, & Jan 1st, 1938
 Total No. of visits

Dates of Examination of principal parts—Cylinders 11-12-36 Covers 11-12-36 Pistons 3-3-37 Piston rods
 Connecting rods 3-3-37 Crank and Flywheel shaft 3-3-37 Intermediate shaft
 Crank and Flywheel shafts, Material Identification Mark
 Intermediate shafts, Material Identification Marks

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

General Remarks (State quality of workmanship, opinions as to class, &c.)
 This engine has been constructed under survey in accordance with the rules and approved plans. The materials and workmanship are good. The engine has been proved satisfactory under working conditions and is being shipped to Ross Sea for fitting on Messrs McAlister S.B.Co. No 58, "Venture".
 This engine has been installed on board the vessel and proved satisfactory under working conditions. Speed and endurance are continuous hours have been given this working engine and found satisfactory

1m. 9.28 - Transfer.
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 3 3-0-0
 Travelling Expenses (if any) £ 9/4
 When applied for, 18.3.1937
 When received, 19.3.1937

Surveyors to Lloyd's Register of Shipping.

Committee's Minute

Assigned

FRI 20 MAY 1938

See H.P. 7E 2863



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