

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 58164

8-MAR-1952

Received at London Office

Port of HULL.

7-MAR-1952

When handed in at Local Office

Yes 4c.

of writing Report

3/8"

Survey held at Hull.

Date, First Survey

16. 1. 52

Last Survey

24. 2. 19 52

350 lb

065

Single

on the

Screw vessel

Motor Trawler "DAUNTLESS STAR"

Number of Visits

14

Gross 132

Net 42

at Selby.

By whom built Cochrane & Sons, Ltd.

Yard No. 1331

When built 1948

at Boston Deep Sea Fishing & Ice Co. Ltd.

Port belonging to

Lowestoft.

Engines made at Manchester.

By whom made Crossley Bros. Ltd.

Contract No. -

When made -

Generators made at - do -

By whom made - do -

BWB2131454

Contract No.

When made -

of Sets One

Engine Brake Horse Power

30

M.N. as per Rule

7.5

Total Capacity of Generators

Kilowatts.

Set intended for essential services Yes

L ENGINES, &c.—Type of Engines Heavy Oil Crossley BWB2.

2 or 4 stroke cycle

4

Single or double acting

Single

Maximum pressure in cylinders 850 lb/sq. inch

Diameter of cylinders

5"

Length of stroke

6 1/4"

No. of cylinders

2

No. of cranks

2

Mean indicated pressure

121

Firing order in cylinders

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 12 5/8"

Is there a bearing between each crank No

Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>)

Revolutions per minute

1000

Wheel dia. 24"

Weight 460

Means of ignition

Compression

Kind of fuel used

Diesel oil

Crank Shaft, dia. of journals

as per Rule

3 1/2"

as fitted

Crank pin dia. 3 1/4"

as fitted

Crank Webs

Mid. length breadth 4 1/2"

Mid. length thickness 27/8" shrunk

Thickness parallel to axis

Thickness round eye-hole

Wheel Shaft, diameter

as per Rule

-

as fitted

Intermediate Shafts, diameter

as per Rule

-

as fitted

General armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>)

-

Are means provided to prevent racing of the engine when declutched Yes

Means of lubrication

Forced

Kind of damper if fitted

-

Are the cylinders fitted with safety valves No

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

Yes

Plunger type 600 gal/hr. at 1000 Revs.

Are cooling Water Pumps, No

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

Yes

Lubricating Oil Pumps, No. and size One - 7/8 dia. x 1 1/4 stroke engine driven.

Are Compressors, No

No. of stages

Diameters

Stroke

Driven by

Are scavenging Air Pumps, No

Diameter

Stroke

Driven by

RECEIVERS:—Have they been made under Survey

State No. of Report or Certificate

Each receiver, which can be isolated, fitted with a safety valve as per Rule

Are 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

Unless, lap welded or riveted longitudinal joint

Material

Range of tensile strength

Working pressure by Rules

Low Pressure Air Receivers, No

Total cubic capacity

Internal diameter

Thickness

Unless, lap welded or riveted longitudinal joint

Material

Range of tensile strength

Working pressure by Rules

ELECTRIC GENERATORS:—Type Enclosed ventilated drip proof.

Pressure of supply 220 volts

Full Load Current

Amperes

Direct or Alternating Current

D.C.

Is an alternating current system, state the periodicity

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

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

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

Are the lubricating arrangements of the generators as per Rule Yes

Are the generators under 100 kw. full load rating, have the makers supplied certificates of test Yes and do the results comply with the requirements

Are the generators 100 kw. or over have they been built and tested under survey

Are tails of driven machinery other than generator "Hamworthy" Cir. Pump and Two Stage air compressor driven through clutch.

Are approved plans forwarded herewith for Shafting No

Receivers

Separate Tanks

Are torsional Vibration characteristics if applicable been approved

Armature shaft Drawing No.

ARE GEAR

Supplied to Rule requirements.

The foregoing is a correct description,

Manufacturer.



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Lloyd's Register Foundation

012501-012507-0222

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—Cylinders.....Covers.....Pistons.....Piston rods.....

Connecting rods.....Crank and Flywheel shafts.....Intermediate shafts.....

Crank shaft { Material.....Tensile strength.....  
 Elongation.....Identification Marks.....

Flywheel shaft, Material.....Identification Marks.....

Identification marks on Air Receivers.....

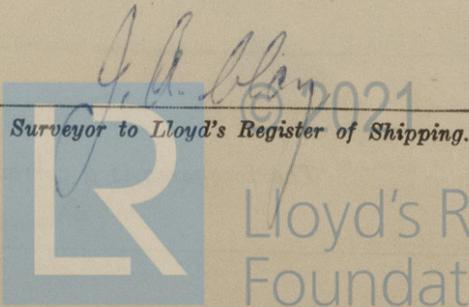
Is this machinery duplicate of a previous case.....If so, state name of vessel.....

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.).....

Form 148-T. (MADE AND PRINTED IN ENGLAND)  
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ : : When applied for ..... 19  
 Travelling Expenses (if any) £ : : When received ..... 19

Committee's Minute.....**FRI. 28 MAR 1952**  
 Assigned.....*See F.E. Welch, rpt.*



Rpt. 13  
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