

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 54501.

Received at London Office

Date of writing Report 19... When handed in at Local Office **12 NOV 1947** 19... Port of **Hull**

No. in Survey held at **Hull** Date, First Survey **19. 5. 47.** Last Survey **31. 10. 19. 47.**

Reg. Book. **Hull** on the **Single** Screw vessel **KRISTIN** (Ex. Admiralty Fire float) Number of Visits **18.**

Built at... By whom built... Yard No... When built...

Owners **Oddsson & Co Ltd** Port belonging to **Hull**

Oil Engines made at **Altrincham** By whom made **Russell Newberry & Co** Engine No. **3767** Contract No. **2764** When made **1944**

Generators made at... By whom made... Contract No... When made...

No. of Sets **1** Engine Brake Horse Power **27** Nom. Horse Power as per Rule... Total Capacity of Generator **12** Kilowatts.

OIL ENGINES, &c.—Type of Engines **Diesel (Type D3)** 2 or 4 stroke cycle **4** ✓ Single or double acting **Single**

Maximum pressure in cylinders **860 lb** Diameter of cylinders **4 1/8"** Length of stroke **6"** ✓ No. of cylinders **3** ✓ No. of cranks **3** ✓

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge **5 1/8"** Is there a bearing between each crank **Yes** ✓

Revolutions per minute **1000** ✓ Flywheel dia. **22"** Weight **26.3 lb** Means of ignition... Kind of fuel used...

Crank Shaft, dia. of journals **2 1/2"** ✓ as fitted Crank pin dia. **2 3/8"** ✓ Crank Webs Mid. length breadth **3 1/2"** ✓ Thickness parallel to axis... Mid. length thickness **1 5/16"** ✓ Thickness round eye-hole...

Flywheel Shaft, diameter... Intermediate Shafts, diameter... Thickness of cylinder liners **Approved engine**

Is a governor or other arrangement fitted to prevent racing of the engine when declutched **Yes** ✓ Means of lubrication **Pumps**

Are the cylinders fitted with safety valves **No** ✓ Are the exhaust pipes and silencers water cooled or lagged with non-conducting material...

Cooling Water Pumps, No. **1** ✓ Is the sea suction provided with an efficient strainer which can be cleared within the vessel...

Lubricating Oil Pumps, No. and size **1** ✓

Air Compressors, No. **1** ✓ No. of stages **2** ✓ Diameters **1 1/8"** **3 1/4"** Stroke **HP 3 3/4 LP 3 3/4** Driven by **clutch to engine**

Scavenging Air Pumps, No. **1** ✓ Diameter... Stroke... Driven by...

AIR RECEIVERS:—Have they been made under Survey **See report on main engine.** 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 as per Rule when full 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... Receivers... Separate Tanks...

SPARE GEAR

2 spare cylinder heads on board in addition to Rule requirements.

The foregoing is a correct description,

Manufacturer.



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008186-008200-0191 1/2

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 O.H. Steel Tensile strength Ultimate 41.6 tons / D.
 Elongation 28% on 2" Identification Marks LLOYDS 1690 F.H. 23-3-44

Flywheel shaft, Material. Identification Marks.

Is this machinery duplicate of a previous case. No 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.)

The crankshaft of this engine was manufactured under the Society's survey and requirements. (Forging certificate attached).
 It is understood that the engine was not built to the Society's survey & requirements, but has now been opened out and examined.
 It is in good condition and operated satisfactorily under working conditions.
 It is eligible to have the notation 201C without the distinguishing mark +.

The amount of Fee ... £ : : When applied for 10
 Travelling Expenses (if any) £ : : When received 10

M. Chambers Bloodier
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute FBI 16 JAN 1948
 Assigned See minute on fe machy 7/1

Rpt. 9a.

Port of HULL

Continuation of Report No. 54501. dated 31.10.47.

on the

"KRISTIN" ex "M.F.V. 1516".
Electrical Installation.
Special Survey and Recondition.

The generator was removed and repaired, a new main switchboard was supplied.

The whole of the installation was stripped out and a complete new one installed.

On completion the equipment was operated under working conditions with satisfactory results and the insulation resistance of all circuits and apparatus was measured and found good.

The foregoing may be considered for a Special Survey.

Fee:- Special Survey £3: 0: 0d.
 Recondition £5: 5: 0d.

W. J. Cornell
 SURVEYOR TO LLOYD'S REGISTER
 OF SHIPPING.

Report No 13 has been requested

BS
 6.1.48.

