

REPORT ON OIL ENGINE ELECTRIC-GENERATOR SETS. No. 14.

Date of writing Report 25-3-42 19 When handed in at Local Office 9-4-1942 Port of LEEDS

No. in Survey held at Keighley Date, First Survey 30-4-41 Last Survey 17-3-42 19

Single on the Twin Triple Quadruple Screw vessel M/V. "EMPIRE LILY." Tons Gross Net

Built at Northwich By whom built I. Pimblott, Sons & Co. Ltd. Yard No. 542 When built 1942

Oil Engines made at Keighley By whom made H. Widdop & Co. Ltd. Engine Contract No. 4142 When made 1942

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

No. of Sets 1 Engine Brake Horse Power 6 Nom. Horse Power as per Rule - Total Capacity of Generators - Kilowatts.

TYPE OF ENGINES, &c. Type of Engines Airless injection heavy oil 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 700 lbs/sq.in. Diameter of cylinders 4" Length of stroke 4" No. of cylinders 1 No. of cranks 1

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 5,125" Is there a bearing between each crank yes

Revolutions per minute 1200 Flywheel dia. 22,5" Weight 1,35 cwt. Means of ignition compression Kind of fuel used Heavy oil

Crank Shaft, dia. of journals as per Rule 2,21" as fitted 2,25" Crank pin dia. 2,25" Crank Webs Mid. length breadth 3" Thickness parallel to axis -

Flywheel Shaft, diameter as per Rule approved & as fitted 2,125" Intermediate Shafts, diameter as per Rule - as fitted - Thickness of cylinder liners ,3125"

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

Engine started by hand No. 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. One Is the sea suction provided with an efficient strainer which can be cleared within the vessel -

Lubricating Oil Pumps, No. and size One, 0,625" bore x 0,25" stroke.

Air Compressors, No. One No. of stages One Diameters 4,5" Stroke 2,75" Driven by Engine 4142

Scavenging Air Pumps, No. - Diameter - Stroke - Driven by -

AIR RECEIVERS: Have they been made under Survey - State No. of Report or Certificate -

Can 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 -

Engine drives one Hamworthy centrifugal pump (24,5 tons per hour against 40 ft head) intended for general service, also air compressor mentioned above.

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

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

SHAFTS. Are approved plans forwarded herewith for Shafting 22-4-40 Receivers Separate Tanks

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The foregoing is a correct description, For H. WIDDOP & COMPANY LTD.

Manufacturer. J. J. Macdonald & Co. Ltd. 14/4/42



009278-009286-0274

Dates of Survey while building
 During progress of work in shops - - 30-4-41, 23-6-41, 5-1-42, 17-3-42
 During erection on board vessel - - -
 Total No. of visits

Dates of Examination of principal parts—Cylinders 30-4-41 Covers 23-6-41 Pistons 23-6-41 Piston rods -
 Connecting rods 9-9-40 Crank and Flywheel shafts 13-2-40 Intermediate shafts -
 Crank and Flywheel shafts, Material S.M. Steel Identification Marks Lloyd's No. 14 W.T.M. 13-2-40
 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 "EMPIRE RIVER" (Watsons, Gainsborough)

General Remarks (State quality of workmanship, opinions as to class, &c.) This engine has been constructed under Special Survey, of tested materials, in accordance with the Secretary's letters, approved Plans and the requirements of the Rules. The materials and workmanship are good and the engine was found to be satisfactory when tested in the shop together with the air compressor and water pump. The engine is suitable, in my opinion, for fitting on board a vessel building to Class with the Society.

Im 439.—Transfer, (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.....

W. J. Ferguson
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute LIVERPOOL 14 JUL 1942

Assigned See Minute on Liverpool E. Machinery Report- *ghk*



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