

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

Ind. Rpt. No. 6541

Received at London Office

Date of writing Report **27 May 1945** When handed in at Local Office **2nd. June 45** Port of **QUEBEC, P.Q.** **26 JUL 1945**

No. in Reg. Book. Survey held at **LAUZON, P.Q.** Date, First Survey **22nd. Sept. 44** Last Survey **26th. May 1945** Number of Visits **Constant attendance**

on the ~~Twin~~ ~~XXXX~~ ~~XXXXXX~~ Screw vessel **TRANSPORT FERRY H.M.S.-LST (3) 3507** Tons (Gross **4290.74** Net **2430.45**)

Built at **LAUZON, P.Q.** By whom built **Davie Shipbuilding & Repairing Co. Ltd.** Card No. **562** When built **1945**

Owners **BRITISH ADMIRALTY** Port belonging to **--** Oil Engines made at **Montreal, P.Q.** By whom made **Dominion Eng. Co. Ltd.** Contract No. **1059 1060** When made **1944**

Generators made at **St. Catharines, Ont.** By whom made **English Elec. Co. of Canada** Contract No. **90301 90693** When made **1944**

No. of Sets **Two** Engine Brake Horse Power **120 each** Nom. Horse Power as per Rule **21.1** Total Capacity of Generators **120 Kilowatts.**

**OIL ENGINES, &c.**—Type of Engines **Auxiliary Vertical Diesel** 2 or 4 stroke cycle **4** Single or double acting **Single**

Maximum pressure in cylinders **1000 Lbs. sq. in.** Diameter of cylinders **7 1/2"** Length of stroke **9"** No. of cylinders **3** No. of cranks **3**

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge **--** Is there a bearing between each crank **Yes**

Revolutions per minute **750** Flywheel dia. **--** Weight **752 Lbs.** Means of ignition **Compression** of fuel used **Diesel**

Crank Shaft, dia. of journals as per Rule **--** as fitted **--** Crank pin dia. **--** Crank Webs Mid. length breadth **--** Thickness parallel to axis **--** Mid. length thickness **--** Thickness around eyehole **--**

Flywheel Shaft, diameter as per Rule **--** as fitted **--** Intermediate Shafts, diameter as per Rule **--** as fitted **--** Thickness of cylinder liners **--**

Is a governor or other arrangement fitted to prevent racing of the engine ~~XXXXXX~~ **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 **Lagged.**

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

Lubricating Oil Pumps, No. and size **1 each, installed in unit**

Air Compressors, No. **Two** No. of stages **Two** Diameters **4 1/2" & 1 1/2"** Stroke **4"** Driven by **9 BHP Heavy Oil Engine**

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

**AIR RECEIVERS:**—Have they been made under Survey **Yes** State No. of ~~XXXXXX~~ Certificate **5524 & 5525**

Is each receiver, which can be isolated, fitted with a safety valve as per Rule **Yes**

Can the internal surfaces of the receivers be examined **Yes** What means are provided for cleaning their inner surfaces **Hand hole**

Is there a drain arrangement fitted at the lowest part of each receiver **Yes**

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. **Two** Total cubic capacity **10.78 cub. ft** Internal diameter **19 7/8"** thickness **15/16"**

Seamless, lap welded or riveted longitudinal joint **Welded** Material **OH Steel** Range of tensile strength **--** Working pressure by Rule **1000 Lbs.**

**ELECTRIC GENERATORS:**—Type **COMPOUND WOUND, CONTINUOUS RATING**

Pressure of supply **225** volts. Full Load Current **266** 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 **--**

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 **--** Receiver's **Approved** Separate Tanks **--**

**SPARE GEAR** **AS PER BRITISH ADMIRALTY REQUIREMENTS.**

The Davie Shipbuilding & Repairing Co. Ltd.

*[Signature]*  
MANAGER

Manufacturer.



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002597-002601-0112

Dates of Survey while building { During progress of work in shops -- } B.C. Survey while building  
 { During erection on board vessel --- } 22-10-44 to 26-5-45  
 Total No. of visits DAILY ATTENDANCE

Dates of Examination of principal parts—Cylinders -- Covers -- Pistons -- Piston rods --  
 Connecting rods -- Crank and Flywheel shafts -- Intermediate shafts --  
 Crank and Flywheel shafts, Material -- Identification Marks --  
 Intermediate shafts, Material -- Identification Marks --  
 Identification marks on Air Receivers LR 5524 HGLP 2-11-44 and LR 5525 HGLP 1-11-44

Is this machinery duplicate of a previous case **yes** If so, state name of vessel **C.N. 948**

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

The above mentioned Auxiliary Diesel Engines Nos. 1059 & 1060 & Generators Nos. 90301 and 90693 were built under Survey of British Corporation in accordance with Admiralty Instructions

These units have been properly installed on board the above Vessel and on completion tried out under specified tests, including overload & found satisfactory, and it is recommended for the favourable consideration of the Committee that the record of \* L.M.C. & the notation of Oil Engines be made in the case of this Vessel.

Copies of Certificates covering Generators Nos. 1059 & 1060 are attached to this Report, also copies of Air Receiver Certificates No. 5524 and 5525.

1M. 3-42. Transfer. (Printed in U. S. A.)  
 (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)	£	:	:	
Included with Machinery Hull Rpt.				

*J. Bloomfield*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI. 24 AUG 1945**

Assigned *Su F.E. machy rpt.*

