

26, 1949  
14, 1949

REC'D NEW YORK SEP 14 1949

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

Sheet 1  
No. 1365

116 SEP 1950

Received at London Office

Writing Report July 26, 1949 When handed in at Local Office Aug. 22, 1949 Port of Cleveland, Ohio

Survey held at Beloit, Wisconsin Date, First Survey Feb. 25 Last Survey July 26, 1949

Book. Single } M.S. "BAHIA THETIS" Number of Visits 14  
on the Twin }  
Triple } Screw vessel Auxiliary Diesel Generators for Argentine Navy Vessel  
Quadruple }

at Halifax, N.S. By whom built Halifax Shipyards Yard No. 18 When built 1949  
ners Argentine Navy Port belonging to --

Engines made at Beloit, Wisconsin By whom made Fairbanks Morse & Co. Contract No. 429-T When made 1949

Generators made at Beloit, Wisconsin By whom made Fairbanks Morse & Co. Contract No. 429-T When made 1949  
of Sets 2 Engine Brake Horse Power 280 Nom. Horse Power as per Rule -- Total Capacity of Generators 384 Kilowatts.

ENGINE, &c.—Type of Engines Trunk piston, solid injection, positive scavenge 2 or 4 stroke cycle 2 Single or double acting S  
Minimum pressure in cylinders 1150 psi. Diameter of cylinders 6.25" Length of stroke 9" No. of cylinders 8 No. of cranks 9

good on of bearings, adjacent to the Crank, measured from inner edge to inner edge 8" Is there a bearing between each crank Yes  
olutions per minute 720 Flywheel dia. 27" Weight 1000 lbs Means of ignition Compression Kind of fuel used Diesel

en app Crank Shaft, dia. of journals as per Rule -- as fitted 5.497" Crank pin dia. 5.497" Crank Webs Mid. length breadth 8" Thickness parallel to axis --  
as per Rule -- as fitted 1-7/8" Mid. length thickness 1-7/8" Thickness around eyehole --

Wheel Shaft, diameter as per Rule -- Intermediate Shafts, diameter as per Rule -- Thickness of cylinder liners .375" min.  
as fitted -- as fitted --

the Governor or other arrangement fitted to prevent racing of the engine ~~was not~~ Yes Means of lubrication Pressure  
my opin the cylinders fitted with safety valves No Are the exhaust pipes and silencers water cooled or lagged with non-conducting material --

oling Water Pumps, No. 2 Is the sea suction provided with an efficient strainer which can be cleared within the vessel. --  
lubricating Oil Pumps, No. and size One attached 63 g.p.m. One hand pump

r Compressors, No. -- No. of stages -- Diameters -- Stroke -- Driven by --  
avenging Air Pumps, No. One Oscillating vane type Diameter Vane 17" x 21" Stroke 7.5" Driven by Crankshaft

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 --

n the internal surfaces of the receivers be examined -- What means are provided for cleaning their inner surfaces. --  
there a drain arrangement fitted at the lowest part of each receiver. --

gh Pressure Air Receivers, No. -- Cubic capacity of each -- Internal diameter -- thickness --  
mless, lap welded or riveted longitudinal joint -- Material -- Range of tensile strength -- Working pressure by Rules --

arting Air Receivers, No. -- Total cubic capacity -- Internal diameter -- thickness --  
mless, lap welded or riveted longitudinal joint -- Material -- Range of tensile strength -- Working pressure by Rules --

ELECTRIC GENERATORS:—Type 2 wire, compound wound, drip proof, ventilated, single bearing  
essure of supply 225 volts. Full Load Current 853 Amperes. Direct or Alternating Current D.C.

alternating current system, state the periodicity -- Has the Automatic Governor been tested and found as per rule when full load is suddenly  
own on and off Yes Generators, are they compounded as per rule Yes is an adjustable

ulating resistance fitted in series with each shunt field Yes Are all terminals accessible, clearly marked, and furnished with  
kets Yes Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Yes

e the lubricating arrangements of the generators as per Rule Yes If the generators are under 100 kw. full load rating, have the Makers supplied  
ificates of test -- and do the results comply with the requirements -- If the generators are 100 kw. or over have they been

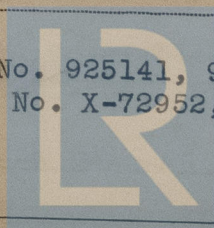
ilt and tested under survey Yes  
ANS. Are approved plans forwarded herewith for ~~Survey~~ N.Y. Feb. 26, 1949 Receivers -- Separate Tanks --  
(If not, state date of approval)

IRE GEAR To Rule Requirements. See Clv. Rpt. No. 1363 for list of spares.

The foregoing is a correct description,

Engine Serial No. 925141, 925142  
Generator Ser. No. X-72952, X-72953.

Manufacturer.



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Foundation

014751-014762-0148



2101  
Dates of Survey while building { During progress of work in shops -- } Feb. 25, Mar. 11, 25, April 12, 18, 20, May 9, 18, 24, 26, June 8, 15, July  
{ During erection on board vessel --- }  
Total No. of visits 14

Dates of Examination of principal parts—Cylinders 9-5-49 Covers 9-5-49 Pistons 9-5-49 Piston rods  
Connecting rods 9-5-49 Crank and Flywheel shafts 9-5-49 Intermediate shafts  
Crank ~~and Flywheel~~ shafts, Material Cast Alloy Iron Identification Marks LLOYDS 6814, 6815  
Intermediate shafts, Material O.H. Forged Steel Identification Marks LLOYDS 6814A, 6815A  
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.)

These auxiliary diesel generator sets have been built under the Society's Special Survey in accordance with the Rules and approved plans. On completion the engines were tested under full load and overload power and found satisfactory. The governor and safety devices were tested and found efficient. The running parts were afterwards opened up for examination and found good. On completion the generators were tested separately under full load and overload power with satisfactory results. The generators were then mounted with their respective engines on fabricated sub-bases, the alignment of couplings checked and found good. The materials and workmanship throughout are of a good quality. Attached to this report are the manufacturer's certified test reports covering the crankshafts, armature shafts and connecting rods.

It is recommended that these two generator sets be incorporated in the vessels machinery record of \*LMC (with date ), subject to their being installed in the vessel and tested under working conditions, all to the satisfaction of the Society's Surveyors.

The amount of Fee £434.00

Travelling Expenses (if any) £210.00

When applied for,  
Sept. 9, 1949  
When received,  
19

R. S. Hagenesen.  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 29 SEP 1950

Assigned See Minute on S.C.R. 1949



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