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No. 6135

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 26 OCT 1944

7 OCT 1944

April 22, 44

When handed in at Local Office

March 21, 19 44

Port of

Montreal, Que.

1,510 in Reg. Book

Survey held at Montreal, Que.

Date, First Survey Feb. 18, 1944

Last Survey

March 16, 1944

(Number of Visits) Constant attendance

on the

Single Screw Steamer "FORT ALABAMA"

Tons

Gross 7201.75  
Net 4006.91

built at North Vancouver, B.C.

By whom built

Burrard Dry Dock Co. Ltd.

Yard No.

211

When built

engines made at

LACHINE, QUE.

By whom made

CANADIAN ALLIS-CHALMERS LIMITED

Engine No.

366

When made

1944

boilers made at

By whom made

Boiler No.

When made

Registered Horse Power

Owners

Port belonging to

Net Horse Power as per Rule

628

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

Trade for which Vessel is intended

ENGINES, &c.—Description of Engines Triple Expansion

Revs. per minute 76

Dia. of Cylinders

24 1/2" x 37" x 70"

Length of Stroke

48"

No. of Cylinders

3

No. of Cranks

3

Crank shaft, dia. of journals

as per Rule 14.21"

for 230 lb

Crank pin dia.

14 1/2"

Crank webs

Mid. length breadth

shrunk

Thickness parallel to axis

9" & 9 1/8" on I.P.

Intermediate Shafts, diameter

as per Rule

14.25"

as fitted

13.53"

for 230 lb

Mid. length thickness

shrunk

Thickness around eye-hole

as per Rule

14.21"

as fitted

14.25"

Tube Shafts, diameter

as per Rule

as fitted

Screw Shaft, diameter

as per Rule

as fitted

15.07"

15.25"

Is the screw

shaft fitted with a continuous liner

Yes

Bronze Liners, thickness in way of bushes

as per Rule

as fitted

.76"

Thickness between bushes

as per Rule

as fitted

.57"

Is the after end of the liner made watertight in the

propeller boss

Yes

If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

Yes

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner

Solid

If two liners are fitted, is the shaft lapped or protected between the liners

No

Is an approved Oil Gland or other appliance fitted at the after end of the tube

Yes

Propeller, dia 18' - 6" Pitch 16' - 0"

No. of Blades

4

Material

Bronze

whether Moveable

Solid

Total Developed Surface

117 sq. ft.

Feed Pumps worked from the Main Engines, No.

None

Diameter

Stroke

Can one be overhauled while the other is at work

Yes

Bilge Pumps worked from the Main Engines, No.

Two

Diameter

Stroke

Can one be overhauled while the other is at work

Yes

Feed {No. and size

Pumps connected to the

{No. and size



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Foundation



From Feb. 18, 1944 to March 16, 1944 (Constant attendance)

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 1.3.44 3.3.44 1.3.44 Slides 7.3.44 3.3.44 1.3.44 Covers 7.3.44 3.3.44 3.3.33  
Pistons 7.3.44 3.3.44 1.3.44 Piston Rods 16.3.44 Connecting rods 2.3.44  
Crank shaft 16.3.44 Thrust shaft 16.3.44 Intermediate shafts  
Tube shaft Screw shaft Propeller  
Stern tube Engine and boiler seatings Engines holding down bolts

Completion of fitting sea connections  
Completion of pumping arrangements Boilers fixed Engines tried under steam

Main boiler safety valves adjusted Thickness of adjusting washers LLOYD'S No. 2526  
Crank shaft material O.H. Steel Identification Mark B.H. 16.3.44 Thrust shaft material O.H. Steel Identification Mark B.H. 16.3.44

Intermediate shafts, material O.H. Steel Identification Marks Tube shaft, material Identification Mark  
Screw shaft, material O.H. Steel Identification Mark Steam Pipes, material Test pressure Date of Test

Is an installation fitted for burning oil fuel Is the flash point of the oil to be used over 150°F.  
Have the requirements of the Rules for the use of oil as fuel been complied with

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo If so, have the requirements of the Rules been complied with  
If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with

Is this machinery duplicate of a previous case Yes If so, state name of vessel  
General Remarks (State quality of workmanship, opinions as to class, &c.)

This ENGINE has been constructed under Special Survey and in conformity with the Society's Rules and Regulations and Secretary's letters.

The scantlings are in accordance with, or equivalent to, those shown on the Approved Plans.

The materials and workmanship are good and the H.P., M.P. and L.P. Cylinders were hydrostatically tested to 330, 110 and 30 lbs. pressure per square inch respectively and found sound and tight at those pressures.

This ENGINE has now been shipped to VANCOUVER, B.C. for installation and official trials.

It is recommended for the favourable consideration of the Committee that the record of L.M.C. (with date) be made in the Register Book, in the case of this vessel, subject to satisfactory installation and trials.

The amount of Entry Fee ... \$ 30.00  
Special ... \$ 267.00  
Donkey Boiler Fee ... \$  
Travelling Expenses (if any) \$ 12.50

When applied for, 15 May 44  
When received, 23.8.44 YCR  
19 RB

B Hardy  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI, 3 NOV 1944

Assigned see minute on J.E. Rpt.