

REPORT ON MACHINERY

No. 2576

REC'D NEW YORK Dec. 24 1918

Received at London Office

MON. 20 JAN. 1919

Report Oct. 9, 1917 when handed in at Local Office

Port of SAN FRANCISCO

Survey held at Oakland, California

Date, First Survey August 4th Last Survey Sept. 12th, 1917

on the Frigate Aux Sch "VERDUN" (Engines Nos. 119 and 120.)

(Number of Visits Seven)

G.L. Esardson Built at Savannah, Georgia By whom built Sultic Engineering Works

Tons { Gross 1352.19
Net 828.34
When built 1918

made at Oakland, Cal.

By whom made Skandia Pacific Oil Engine Co.

when made 1917

made at

By whom made

when made

Brake

Horse Power 240 each

Owners

French Government.

Port belonging to Havre.

Power as per Section 28 137

Is Refrigerating Machinery fitted for cargo purposes No.

Is Electric Light fitted Yes.

ES, &c.—Description of Engines Crude Oil engines - 2 stroke cycle No. of Cylinders 8 4 No. of Cranks 8 4

Cylinders 14.17" Length of Stroke 15.748 Revs. per minute 300 Dia. of Screw shaft as per rule 6.3 as fitted 6.2 Material of screw shaft O.H. Steel

Screw shaft fitted with a continuous liner the whole length of the stern tube Yes. Is the after end of the liner made water tight

Propeller boss Yes. If the liner is in more than one length are the joints burned If the liner does not fit tightly at the part

The bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive If two

fitted, is the shaft lapped or protected between the liners Length of stern bush 3'-0"

Dia. of Crank shaft journals as per rule 5.2 as fitted 6.69 Dia. of Crank pin 6.69 Size of Crank webs 15.9x8.6x3.8

Dia. of screw 6'-4" Pitch of Screw 4'-8" No. of Blades 3 State whether moveable No Total surface 160 sq in per blade.

ed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work

lge pumps 2 Diameter of ditto 23" Stroke 3.3" Can one be overhauled while the other is at work Yes.

Donkey Engines 2 Sizes of Pumps 6-4-6 & 7-2-5-6 No. and size of Suctions connected to both Bilge and Donkey pumps

Room 2 - 2 1/2 from engine room In Holds, &c. 2 - 2 1/2 from holds.

ge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size

bilge suction pipes fitted with roses Yes. Are the roses in Engine room always accessible Yes. Are the sluices on Engine room bulkheads always accessible

connections with the sea direct on the skin of the ship Yes. Are they Valves or Cocks Valves.

ized sufficiently high on the ship's side to be seen without lifting the stowhold plates Yes. Are the Discharge Pipes above or below the deep water line above.

ch fitted with a Discharge Valve always accessible on the plating of the vessel Yes. Are the Blow Off Cocks fitted with a spigot and brass covering plate

are carried through the bunkers How are they protected

Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes.

ilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes.

examination of completion of fitting of Sea Connections 15th May of Stern Tube 1st May Screw shaft and Propeller 15th May.

ew Shaft Tunnel watertight Is it fitted with a watertight door worked from

ES, &c.—(Letter for record) Manufacturers of Steel

ting Surface of Boilers Is Forced Draft fitted No. and Description of Boilers

Pressure Tested by hydraulic pressure to Date of test No. of Certificate

oiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to

Area of each valve Pressure to which they are adjusted Are they fitted with easing gear

distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates

Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams

Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell

compensating ring No. and Description of Furnaces in each boiler Material Outside diameter

lain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings

asure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom

ys to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules

stays Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space:

Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays

at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom

Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays

as wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and

girder at centre Length as per rule Distance apart Number and pitch of stays in each

ressure by rules Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

asure of end plates Area of safety valves to superheater Are they fitted with easing gear

W796-0023

Lloyd's Register Foundation

IS A DONKEY BOILER FITTED?

Yes.

If so, is a report now forwarded? Yes.

SPARE GEAR.

State the articles supplied:— 1 Cylinder cover complete with valve seats springs etc; One complete set of valves, valve seats and springs for one cylinder; One piston with rings, springs & nuts; One set piston & connecting rods, bolts and nuts; Two wrist pins; Two main bearings, bolts & nuts; One set of coupling bolts for thrust and tail shafts; One fuel pump complete for main engine; One hand oil pump; One set of valves for water circulating pump; One spare burner lamp; A quantity of assorted bolts & nuts, including one set of cylinder cover studs and nuts; Lengths of pipe suitable for fuel delivery pipes.

The foregoing is a correct description,

SKANDIA PACIFIC OIL ENGINE CO.

Manufacturer.

Dates of Survey while building { During progress of work in shops - - August 4th, 13th, 27th, 30th, September 5th, 11th, 15th, 1917.
During erection on board vessel - - Jan 15, 23, Feb. 4, 13, Mar. 4, 12, 17, Apr. 5, 17, 23, May 1, 15, 22, 28, June 6, 14, 19, July 3, 24, Aug. 8, 24, Sept. 4, 18, Oct. 1, 1917.
Total No. of visits 34.

Is the approved plan of main boiler forwarded herewith.

" " " donkey " "

Dates of Examination of principal parts—Cylinders Aug. 4 Slides Aug. 4 Covers Aug. 13 Pistons Aug. 30 Rods

Connecting rods Aug. 27 Crank shaft Sept. 5 Thrust shaft Sept. 5 Tunnel shafts Screw shaft 17th April Propeller 15

Stern tube 1st May Steam pipes tested Engine and boiler seatings 4 March Engines holding down bolts 5th 6

Completion of pumping arrangements 31st October

Main boiler safety valves adjusted

Thrust and Material of Crank shafts Steel Identification Mark on D

Material of Piston shafts O.H. Steel Identification Marks on D

Material of Steam Pipes

Is an installation fitted for burning oil fuel

Have the requirements of Section 49 of the Rules been complied

Is this machinery duplicate of a previous case

General Remarks (State quality of workmanship, opinion)

This twin set of oil engines has been installed in accordance with the Rules, and the workman engines were tried out under working conditions.

These engines have now been shipped and to complete the survey it remains to test same under various working conditions in position and spare gear, as per Rules, to be supplied and placed on board.

(*) No. 119 Shaft

LLOYD'S
No. 95
RB. 3-17

No. 120 Shaft

LLOYD'S
No. 328
WS. 5-5-17

The machinery has been installed on board to my satisfaction & tested under full power & found satisfactory.

It is submitted that this vessel is eligible for THE RECORD. + LMC 10.18.

Oil Engines 2 S.C. SA. 8 Cy. 14³/₁₆ - 15

Skandia Pacific Oil Eng. Co. Oakland, Cal. (Amn)

J. Hugh Boyle.

W. Lawson

Engineer Surveyor to Lloyd's Register of British & Foreign Steamships

The amount of Entry Fee ... £ : : When applied for,
Special ... £ 150.00 : Oct. 9 1917.
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ : : 19

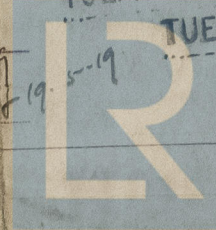
Committee's Minute

Assigned

+ dmc 10.18 Subject

TUE. 7-OCT. 1917

TUE. 2-SEP. 1917



Lloyd's Register Foundation