

REPORT ON MACHINERY

No. 2701

Received at London Office

MON. JUL 31 1922

Report made at Oakland, Cal. Date, First Survey Oct. 8, 1918 Last Survey Mar. 7, 1918
 the San Ramon Engines Nos. 135 & 136
 Built at Oakland, Cal. By whom built Skandia-Pacific Oil Engine Co. when made 1918
 at ake By whom made when made
 Horse Power 240 each Owners Port belonging to
 Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

Each
 &c.—Description of Engines Crude Oil Engine - 2 stroke cycle No. of Cylinders 4 No. of Cranks 4
 Diameters 14.173 Length of Stroke 15.748 Revs. per minute 300 Dia. of Screw shaft as per rule Material of as fitted screw shaft as fitted
 shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight
 U-er boss If the liner is in more than one length are the joints burned If the liner does not fit tightly at the part
 bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive If two
is the shaft lapped or protected between the liners Length of stern bush as per rule
 shaft as fitted Dia. of Crank shaft journals as per rule 5.2" Dia. of Crank pin 6.59 Size of Crank webs 15.9x8.6x3.8" Dia. of thrust shaft under as fitted 6.69"
 Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface Diameter of ditto Stroke Can one be overhauled while the other is at work
umps umps 2 Diameter of ditto 2 3/4" Stroke 3" Can one be overhauled while the other is at work No.
 Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps
 om In Holds, &c.
 sections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size
 suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible
 lions with the sea direct on the skin of the ship Are they Valves or Cocks
 sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Discharge Pipes above or below the deep water line
 fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate
 e 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
 Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges
 Shaft Tunnel watertight Is it fitted with a watertight door worked from

&c.—(Letter for record Manufacturers of Steel)
 g Surface of Boilers Is Forced Draft fitted No. and Description of Boilers
 ssure Tested by hydraulic pressure to Date of test No. of Certificate
 r 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
 e 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: ir. seams
Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
 strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell
plate
 ating ring No. and Description of Furnaces in each boiler Material Outside diameter
 top Thickness of plates crown Description of longitudinal joint No. of strengthening rings
 part bottom Combustion chamber plates: Material Thickness: Sides Back Top Bottom
 re of furnace by the rules ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules
Area 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
 st 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
Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays
 wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and
 ler at centre Length as per rule Distance apart Number and pitch of stays in each
 re by rules Steam dome: description of joint to shell % of strength of joint
 Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
 Working pressure of shell by rules Crown plates Thickness How stayed

TER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 Valve Pressure to which each is adjusted Is Easing Gear fitted

007276 - 007287 - 0094

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops -- Oct. 8, 25, Nov. 1, 5, 12, 19, 26, Dec. 7, 12, 24, 1917, Jan. 7, 14, 21, 25, Feb. 4, 8, 9, 11, 13, 25, and Mar. 7, 1918.
During erection on board vessel --
Total No. of visits Twenty-one.

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders Nov. 6, 8 Slides Nov. 19 Covers Feb. 4, 8 Pistons Nov. 19, Dec. 12 Rods
& thrust Oct. 25,

Connecting rods Crank/shaft Nov. 1 Thrust shaft - Tunnel shafts Screw shaft Propeller

Stern tube Steam pipes tested Engine and boiler seatings Engines holding down bolts

Completion of pumping arrangements Boilers fixed Engines tried under power Feb. 9 & 13.

Completion of fitting sea connections Stern tube Screw shaft and propeller

Main boiler safety valves adjusted Thickness of adjusting washers

Material of Crank/shaft Steel. Identification Mark on Do. (*) Material of Thrust shaft Identification Mark on Do.

Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts Identification Marks on Do.

Material of Steam Pipes Test pressure applied to cylinders & heads 500 lbs.

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 Section 49 of the Rules been complied with

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.)

This twin set of oil engines has been built under special survey, of materials tested in accordance with the rules, and the workmanship was found good throughout. On completion the engines were tried out under working conditions on the test stand and found satisfactory.

These engines are now ready for shipment 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.

Shaft No. 136

Shaft No. 135.

LLOYD'S
No. 215
R.B. 5-17

LLOYD'S
No. 545
31-7-17
W.S.

The amount of Entry Fee ... £ : : When applied for,
Special ... £ \$150.00 : Apr. 10, 1918
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : : July 6th 1918

Engineer Surveyor to Lloyd's Register of Shipping.

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Assigned Transmit to London

FRI. 7 DEC. 1923

TUES 21 OCT 1924
TUES. 10 MAR 1925



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