

REPORT ON MACHINERY

No. 2701

Received at London Office

MON. JUL 31 1922

Report made on Apr. 1, 1918 when handed in at Local Office 19 Port of SAN FRANCISCO,
Survey held at Oakland, Cal. Date, First Survey Oct. 8, 1917 Last Survey Mar. 7, 1918
the San Ramon Engines Nos. 135 & 136 Tons { Gross }
Built at Oakland, Cal. By whom built Skandia-Pacific Oil Engine Co. when made 1918
at Oakland, Cal. By whom made Skandia-Pacific Oil Engine Co. when made 1918
ake 240 each Owners Skandia-Pacific Oil Engine Co. Port belonging to Skandia-Pacific Oil Engine Co.
Power as per Section 28 240 each Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

Each
Description of Engines Crude Oil Engine - 2 stroke cycle No. of Cylinders 4 No. of Cranks 4
Diameter 14.173 Length of Stroke 15.748 Revs. per minute 300 Dia. of Screw shaft as per rule Material of 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
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
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
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
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
In Holds, &c.
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
Are they Valves or Cocks Are the Discharge Pipes above or below the deep water line
Are the Blow Off Cocks fitted with a spigot and brass covering plate 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

(Letter for record) Manufacturers of Steel
Surface of Boilers Is Forced Draft fitted No. and Description of Boilers
Tested by hydraulic pressure to Date of test No. of Certificate
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
Mean dia. of boilers Length Material of shell plates
Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: riv. seams
Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
Working pressure of shell by rules Size of manhole in shell
No. and Description of Furnaces in each boiler Material Outside diameter
Thicknes of plates Description of longitudinal joint No. of strengthening rings
Combustion chamber plates: Material Thickness: Sides Back Top Bottom
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
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
Girders to Chamber tops: Material Depth and
Length as per rule Distance apart Number and pitch of stays in each
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
Pressure to which each is adjusted Is Easing Gear fitted

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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. Total No. of visits Twenty-one.

Dates of Examination of principal parts—Cylinders Nov. 6, 8 Slides Nov. 19, 19 Covers Feb. 4, 8 Pistons Nov. 19, Dec. 12 Rods 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 & thrust 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 ... £ : : When received, Travelling Expenses (if any) £ : : July 6, 1918

Signature of Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute New York Jul. 18, 1922 Assigned Transmitted to London

FRI. 7 DEC. 1923

TUES. 21 OCT 1924 TUES. 10 MAR 1925



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Certificate (if required) to be sent to

The Surveyors are requested not to write on or below the space for Committee's Minute.