

Rpt. 4b.

REPORT ON OIL ENGINE MACHINERY.

No. 40

Date of writing Report 10th Sept. 1923 When handed in at Local Office 10th Sept. 1923 Port of Winterthur WFD. 19 SEP. 1923
 No. in Survey held at Winterthur Date, First Survey 19th May 1920. Last Survey 1st Sept. 1923.
 Reg. Book.

Single QUADRUPLE
 Twin Screw vessel
 Triple

AORANGI

Tons Gross 7491
 Net 10733

Master Built at Glasgow By whom built The Fairfield S.E. Co. Ltd. and No. 603. When built 1923
 Engines made at Winterthur By whom made Messrs. Sulzer Bros. Engine Nos. 2459, 2463, 2471. When made 1923.
 Aux. Boilers made at Glasgow By whom made The Fairfield S.E. Co. Ltd. Boiler No. 603 When made 1923.
 Brake Horse Power 420 EACH ENG. = 1680 TOTAL Owners The Union S.S. Co. of New Zealand. Port belonging to London
 Nom. Horse Power as per Rule 1680 EACH ENG. TOTAL 6720 Is Refrigerating Machinery fitted for cargo purposes *Yes* Is Electric Light fitted *Yes*

OIL ENGINES, &c. Type of Engines 4 Sulzer Auxiliary Diesel Engines 2 or 4 stroke cycle 2 Single or double acting single

Maximum pressure in cylinders 35 ATs. No. of cylinders 4 EACH ENG. 16 TOTAL No. of cranks 4 EACH ENG. Diameter of cylinders 340 mm.

Length of stroke 540 mm. Revolutions per minute 200. Means of ignition Temperature due to compression Ind of fuel used heavy fuel oil.

Is there a bearing between each crank *Yes*. Span of bearings (Page 92, Section 2, par. 7 of Rules) 430 mm.

Distance between centres of main bearings 650 mm. Is a flywheel fitted *Yes* Diameter of crank shaft journals as per Rule 196.5 mm. as fitted 215 mm.

Diameter of crank pins 215 mm. Breadth of crank webs as per Rule 261 mm. as fitted 280 mm. Thickness of ditto as per Rule 110 mm. as fitted 115 mm.

Diameter of flywheel shaft as per Rule 196.5 mm. as fitted 215 mm. Diameter of tunnel shaft as per Rule as fitted Diameter of thrust shaft as per Rule as fitted

Diameter of screw shaft as per Rule as fitted Is the screw shaft fitted with a continuous liner the whole length of the stern tube

Is the after end of the liner made watertight in the propeller boss *Yes* If the liner is in more than one length are the joints burned *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 two liners are fitted, is the shaft lagged or protected between the liners *Yes* If without liners, is the shaft arranged to run in oil *Yes*

Type of outer gland fitted to stern tube *Yes* Length of stern bush *Yes* Diameter of propeller *Yes*

Pitch of propeller *Yes* No. of blades *Yes* state whether moveable *Yes* Total surface *Yes* square feet

Method of reversing *Not reversible* Is a governor or other arrangement fitted to prevent racing of the engine *Yes* Thickness of cylinder liners 27.5 mm.

Are the cylinders fitted with safety valves *Yes* Means of lubrication *Forced* Are the exhaust pipes and silencers water cooled or lagged with

non-conducting material *Yes* If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine *Exhaust led up funnel.*

No. of cooling water pumps *1 D.A. GENERAL SERVICE & PISTON COOLING.* EACH ENG. the sea suction provided with an efficient strainer which can be cleared

within the vessel No. of bilge pumps fitted to the main engines *1 D.A. EACH ENG.* Diameter of ditto 115 mm. Stroke 110 mm.

Can one be overhauled while the other is at work No. of auxiliary pumps connected to the main bilge lines *Yes* How driven *Yes*

Sizes of pumps No. and sizes of suctions connected to both main bilge pumps and auxiliary bilge pumps:—In engine room

and in holds, etc. No. of ballast pumps *Yes* How driven *Yes* Sizes of pumps *Yes*

Is the ballast pump fitted with a direct suction from the engine room bilges State size Is a separate auxiliary pump suction fitted in

engine room and size Are all the 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 *Yes* Are all connections with the sea direct on the skin of the ship *Yes*

Are they valves or cocks *Yes* Are they fixed sufficiently high on the ship's side to be seen without lifting the floor plates *Yes*

Are the discharge pipes above or below the deep water line *Yes* Are they each fitted with a discharge valve always accessible on the plating of the vessel *Yes*

Are all pipes, cocks, valves and pumps in connection with the machinery accessible at all times *Yes* Are the bilge suction pipes, cocks and valves arranged so as to prevent any

communication between the sea and the bilges *Yes* Is the screw shaft tunnel watertight *Yes* Is it fitted with a watertight door *Yes*

Is the screw shaft tunnel watertight *Yes* If a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork *Yes*

No. of main air compressors *1 EACH ENG.* No. of stages *3.* Diameters *390/360/15* Stroke *280 mm.* Driven by *Engine Shaft.*

No. of auxiliary air compressors No. of stages Diameters Stroke Driven by

No. of small auxiliary air compressors No. of stages Diameters Stroke Driven by

No. of scavenging air pumps *1 D.A. EACH ENG.* Diameter *100 mm.* Stroke *450 mm.* Driven by *Engine Shaft.*

Diameter of auxiliary Diesel Engine crank shafts as per Rule as fitted Are the air compressors and their coolers made so as to be easy of access *Yes*

AIR RECEIVERS:—No. of high pressure air receivers *1 EACH ENG.* Internal diameter *248 mm.* Cubic capacity of each *100 LITRES.*

Material *S.M. ING. STEEL.* Seamless, lap welded or riveted longitudinal joint *Seamless.* Range of tensile strength *28 To 35 Tons per sq.*

Thickness *9.5 mm.* Working pressure by Rules *69 ATs.* No. of starting air receivers Internal diameter

at cubic capacity Material Seamless, lap welded or riveted longitudinal joint

Range of tensile strength thickness Working pressure by rules Is each receiver, which can be isolated,

and with a safety valve as per Rule *Yes.* Can the internal surfaces of the receivers be examined *Yes* What means are provided for cleaning their

inner surfaces *Opening 65 mm dia. at one end.* Is there a drain arrangement fitted at the lowest part of each receiver *Yes.*



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 Foundation

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

HYDRAULIC TESTS:—

DESCRIPTION.	DATE OF TEST.	WORKING PRESSURE.	TEST PRESSURE.	STAMPED.	REMARKS.
ENGINE CYLINDERS	12-7-20, 4-8-20, 5-8-20, 17-8-20, 1-11-20.	35 ATG.	75 ATG.	R	Test satisfactory
COVERS	" " " " " "	" "	" "	R	-do-
JACKETS	" " " " " "	1 "	3 "	R	-do-
PISTON WATER PASSAGES	10-6-20, 14-6-20, 22-7-20, 16-8-20	" "	" "	R	-do-
MAIN COMPRESSORS—1st STAGE	10-6-20, 21-6-20, 22-7-20, 13-8-20	3 "	35 "	R	-do-
2nd	" " " " " "	17.5 "	" "	R	-do-
3rd	" " " " " "	40 "	140 "	R	-do-
AIR RECEIVERS—STARTING	" " " " " "	" "	" "	"	"
INJECTION	" " " " " "	40 "	" "	"	"
AIR PIPES	11-6-20, 27-7-20, 6-8-20, 19-8-20, 20-8-20	40 "	140 "	R	Test satisfactory
FUEL PIPES	" " " " " "	40 "	" "	R	-do-
FUEL PUMPS & VALVES	14-6-20, 28-7-20, 16-8-20, 10-6-20, 25-4-20.	40 "	" "	R	-do-
EXHAUST PIPES	10-6-20, 12-6-20, 22-7-20, 9-8-20.	1 "	3 "	R	-do-
WATER JACKET	10-6-20, 12-6-20, 22-7-20, 9-8-20.	" "	" "	"	-do-
SEPARATE FUEL TANKS	" " " " " "	" "	" "	"	"

PLANS. Are approved plans forwarded herewith for shafting (If not, state date of approval)

Yes.

Receivers

4-6-23.

Separate Tanks

SPARE GEAR 2 cylinder covers without valves, 4 cylinder liners, 4 combined fuel & air starting valves complete, 12 fuel needles with guides, 2 working pistons complete with piston rods, 95 piston rings, 2 complete con. rod bottom & top end bearings with bolts nuts, 2 con. rod bottom and bolts nuts, 2 con. rod top end bolts nuts, 2 main bearing bolts nuts, 2 coupling bolts for crank shaft, 24 piston rings for HP & IP compressor pistons, 20 piston rings for LP compressor piston, 4 piston rings for scavenging pump, 2 suction & delivery valves for HP compressor, 24 outer & 24 inner valves for IP & LP compressor, 8 suction & delivery valves for fuel pump, 2 pistons with bushes for fuel pump, 2 con. rods complete for fuel pump, 2 crosshead pins for fuel pump, 21 rings for scavenging pump valves, 4 valves with seats for lubricating pump, 14 bolts nuts for working cylinder, 95 metres pipes for starting air, 16 metres pipes for injection air, 10 metres pipes for fuel delivery, all pipes fitted with unions.

The foregoing is a correct description.

Manufacturers

Sulzer Brothers
Limited
P. H. Bachmann

Dates of Survey while building	During progress of work in shops -	During erection on board vessel -	Total No. of visits
19-5-20, 20-5-20, 10-6-20, 11-6-20, 12-6-20, 14-6-20, 21-6-20, 12-7-20, 22-7-20, 26-7-20, 27-7-20, 28-7-20, 29-7-20, 30-7-20, 31-7-20, 1-8-20, 2-8-20, 3-8-20, 4-8-20, 5-8-20, 6-8-20, 7-8-20, 8-8-20, 9-8-20, 10-8-20, 11-8-20, 12-8-20, 13-8-20, 14-8-20, 15-8-20, 16-8-20, 17-8-20, 18-8-20, 19-8-20, 20-8-20, 21-8-20, 22-8-20, 23-8-20, 24-8-20, 25-8-20, 26-8-20, 27-8-20, 28-8-20, 29-8-20, 30-8-20, 31-8-20, 1-9-20, 2-9-20, 3-9-20, 4-9-20, 5-9-20, 6-9-20, 7-9-20, 8-9-20, 9-9-20, 10-9-20, 11-9-20, 12-9-20, 13-9-20, 14-9-20, 15-9-20, 16-9-20, 17-9-20, 18-9-20, 19-9-20, 20-9-20, 21-9-20, 22-9-20, 23-9-20, 24-9-20, 25-9-20, 26-9-20, 27-9-20, 28-9-20, 29-9-20, 30-9-20, 1-10-20, 2-10-20, 3-10-20, 4-10-20, 5-10-20, 6-10-20, 7-10-20, 8-10-20, 9-10-20, 10-10-20, 11-10-20, 12-10-20, 13-10-20, 14-10-20, 15-10-20, 16-10-20, 17-10-20, 18-10-20, 19-10-20, 20-10-20, 21-10-20, 22-10-20, 23-10-20, 24-10-20, 25-10-20, 26-10-20, 27-10-20, 28-10-20, 29-10-20, 30-10-20, 31-10-20, 1-11-20, 2-11-20, 3-11-20, 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