

Winterthur,

22nd July 1925.

C. 293.

W. G. Vallis

Messrs. Sulzer Bros. witness hydraulic tests on the following castings and steel pipes for a Marine Diesel Installation to be installed in the M.S. No.410 building to class by Messrs. Mitsubishi Zosen Kaisha at Nagasaki.

The following are the hydraulic tests and verification marks :

<u>Item</u>	<u>Main Diesel Engines Nos. 5465 & 5471, Type 6ST60.</u>
12 cylinders	Eng.No. 5465 or 5471, Lloyd's Test, Cylinder 75 At. Jacket 6 At. - R. 16-1-25, 29-1-25, 6-2-25, or 10-2-25, cylinder No. 5465 to 5476.
12 cylinder heads	Lloyd's Test 75 Ats., Jacket 6 Ats. R. 16-1-25, 29-1-25, 6-2-25, 10-2-25.
2 cylinder heads (reserve)	Lloyd's Test 75 Ats., Jacket 6 Ats. R. 11-6-25.
12 pistons	Eng.No. 5465 or 5471, Lloyd's Test 6 Ats. R. 27-4-25 or 11-5-25.
2 pistons (reserve)	Eng.No. 5465/71, Lloyd's Test 6 Ats. R. 12-6-25.
4 - 1st and 2nd stage compressor cylinders	Eng.No. 5465 or 5471, Lloyd's Test, Cylinders 50 Ats., Jackets 6 Ats. R. 27-2-25, 7-3-25.



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Item	Main Diesel Engines Nos. 5465 and 5471, Type 68T60.
4 - 3rd stage compressor cylinders	Lloyd's Test Cylinder 150 Ats., Jacket 6 Ats. R. 3-3-25, 5-3-25.
4 - 1st stage coolers for compressors	Lloyd's Test 20 Ats. R. 20-2-25.
4 - 2nd stage coolers for compressors	Lloyd's Test 60 Ats. R. 27-2-25.
4 - 3rd stage coolers for compressors	Lloyd's Test 150 Ats. R. 27-2-25, 5-3-25.
12 fuel and air valves	Eng.No. 5465 or 5471, Lloyd's Test, Valves 140 Ats. R. 8-1-25 or 9-1-25.
2 fuel and air valves (reserve)	Eng.No. 5465 or 5471, Lloyd's Test, Valves 150 Ats. R. 12-6-25.
12 starting air valves	Eng.No. 5465 or 5471, Lloyd's Test, 60 Ats., W.P. 30 Ats. R. 8-1-25 or 9-1-25.
2 starting air valves (reserve)	Lloyd's Test 60 Ats., W.P. 30 Ats. R. 28-5-25.
14 exhaust pipes	Eng.No. 5465 or 5471, Lloyd's Test 6 Ats. R. 15-1-25 or 12-2-25.
2 fuel pumps	Eng.No. 5465 or 5471, Lloyd's Test 140 Ats. R. 16-1-25 or 19-1-25.
Starting air distribution box	Lloyd's Test 140 Ats., W.P. 70 Ats. R. 22-6-25.
2 exhaust silencers	Lloyd's Test 2.5 Ats., R. 19-6-25, 23-6-25.
Air receiver heads	Eng.No. 5465 or 5471, Lloyd's Test 140 Ats., W.P. 70 Ats. R. 19-6-25.
H.P. air and fuel pipes	R. 150 Ats.
I.P., L.P. air and H.P. lubricating pipes	R. 60 Ats.



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Item Main Diesel Engines Nos. 5465 and 5471, Type 6ST60.

2 injection air receivers	}	Eng.No. 5465, 6892, 150 Lit. 15-7-20, Lloyd's Test 1988 lbs. 31 KH, W.P. 70 Ats. R. 27-3-25.
		Eng.No. 5471, 6894, 150 Lit. 15-7-20, Lloyd's Test 1988 lbs. 33 KH, W.P. 70 Ats. R. 27-3-25.
Water cooling system		3 Ats. for each engine 26-5-25, 6-6-25.
10 starting air receivers		Eng.No. 5465 or 5471, 800 Lit., Lloyd's Test 2135 lbs., KH or MB, Working Pressure 70 Ats., R. 19-6-25. Nos. 100, 101, 102, 127, 129, 136, 138, 139, 141 and 142.

Auxiliary Engines Nos. 14177, 14181 and 14185.
Type 4RH31.

12 cylinders	Eng.No. 14177, 14181 or 14185, Lloyd's Tests, cylinders 75 Ats., Jackets 6 Ats. R. 23-3-25, 24-3-25, 25-3-25. (on No.1 cylinder of each engine 75 Ats./6 Ats.) R. 23-3-25, 24-3-25 or 25-3-25 (on Nos. 2, 3 and 4 cylinders of each engine).
12 cylinder heads	75 Ats./6 Ats. R. 27-2-25, 27-3-25.
36 fuel valves	Lloyd's Test 200 Ats., R. 15-4-25.
3 fuel valves (reserve)	Lloyd's Test 200 Ats., R. 15-4-25.
6 fuel pumps	Lloyd's Test 200 Ats., R. 25-2-25.
6 starting air valves	Lloyd's Test 60 Ats., W.P. 30 Ats., R. 20-2-25.
1 starting air valve (reserve)	Lloyd's Test 60 Ats., W.P. 30 Ats. R. 19-5-25.
3 exhaust silencers	Lloyd's Test 2.5 Ats., R. 23-6-25 or 13-7-25.
Fuel pipes	R. 200 Ats.
Air pipes	R. 60 Ats.
3 exhaust pipes.	Lloyd's Test 6 Ats., R. 14-4-25.



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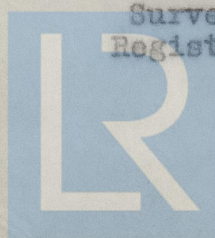
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<u>Item</u>	<u>Auxiliary Engine No. 14213, Type 2RH24.</u>
2 cylinders	Eng. No. 14213, Lloyd's Test, cylinders 75 Ats., Jackets 6 Ats., <i>R</i> 14-4-25 (on No. 1 cylinder) 75 Ats./6 Ats. <i>R</i> 14-4-25 (on No. 2 cylinder)
2 cylinder heads	75 Ats./6 Ats. <i>R</i> 13-3-25.
Fuel valves	Lloyd's Test 200 Ats. <i>R</i> 8-5-25.
Fuel pipes	<i>R</i> 12-5-25. " "

	<u>Auxiliary Compressors Nos. 165 and 167, Type C100.</u>
1st and 2nd stage cylinders	No. 165 or 166, Lloyd's Test 35 Ats., Jacket 6 Ats. <i>R</i> 27-3-25 or 20-4-25.
3rd stage cylinders	No. 165 or 166, Lloyd's Test 150 Ats., Jacket 6 Ats. <i>R</i> 18-3-25 or 20-4-25.
1st stage coolers	Lloyd's Test 20 Ats., <i>R</i> 9-2-25 or 10-2-25.
2nd stage coolers	Lloyd's Test 60 Ats., <i>R</i> 4-2-25.
3rd stage coolers	Lloyd's Test 140 Ats., <i>R</i> 9-2-25 or 10-2-25.
1st stage air pipes	<i>R</i> 20 Ats.
2nd stage air pipes	<i>R</i> 60 Ats.
3rd stage air pipes	<i>R</i> 150 Ats.

	<u>Auxiliary compressor No. 268, Type MC6.</u>
Cylinders	No. 268, Lloyd's Tests, Working Cyl. 45 Ats., 1st stage compr. cyl. 35 Ats., 2nd stage compr. cyl. 140 Ats., Jacket 3 Ats. <i>R</i> 26-4-23, 7-5-23.

W. G. Fallis
Surveyor to Lloyd's
Register of Shipping.



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