

#411

Winterthur,

9th September 1925.

C. 298.

W. G. Vallis

Messrs. Sulzer Bros. witness hydraulic tests on the following castings and solid drawn steel pipes for a Marine Diesel Installation to be installed in the M.S.No.411 building to Class by Messrs. Mitsubishi Zosen Kaisha at Nagasaki.

The following are the hydraulic tests and verification marks :-

<u>Item</u>	<u>Marine Diesel Engines Nos.5477 &amp; 5483. Type 6ST60.</u>
12 Cylinders	Eng.No. 5477 or 5483, Lloyd's Test, cylinder 75 Ats., Jacket 6 Ats. R. 11-5-25, 12-5-25 or 19-5-25. cylinder No. 5477 to 5488.
12 Cylinder heads	Lloyd's Test 75 Ats. Jacket 6 Ats. R. 11-5-25, 12-5-25 or 19-5-25.
2 Cylinder heads (reserve)	Lloyd's Test 75 Ats. Jacket 6 Ats. R. 11-6-25.
12 Pistons	Eng.No. 5477 or 5483, Lloyd's Test 6 Ats. R. 4-6-25, 12-6-25.
1 Piston (reserve)	Eng.No. 5477 or 5483, Lloyd's Test 6 Ats. R. 12-6-25.
4 - 1st & 2nd st Compressor cylinders	Eng.No. 5477 or 5483, Lloyd's Test, Cylinders 50 Ats., Jacket 6 Ats. R. 8-3-25 or 12-5-25



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<u>Item</u>	<u>Marine Diesel Engines Nos. 5477 &amp; 5483, Type 68T60.</u>
4 - 3rd stage Compressor Cylinders	Eng.No. 5477 or 5483, Cylinder 150 Ats., Jacket 6 Ats. R. 13-5-25 or 14-5-25.
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. 31-3-25
4 - 3rd stage Coolers for Compressors	Lloyd's Test 150 Ats. R. 31-3-25
12 Fuel and Air Valves	Eng.No. 5477 or 5483, Lloyd's Test, Valves 150 Ats. R. 3-3-25 or 14-4-25.
2 Fuel and Air Valves(res.)	Eng.No. 5477 or 5483, Lloyd's Test, Valves 150 Ats. R. 12-6-25.
12 Starting Air Valves	Eng.No. 5477 or 5483, Lloyd's Test 60 Ats. WP. 30 Ats. R. 12-1-25, 13-1-25.
2 Starting Air Valves (reserve)	Eng.No. 5477 or 5483, Lloyd's Test 60 Ats. WP. 30 Ats. R. 28-5-25.
14 Exhaust Pipes	Eng.No. 5477 or 5483, Lloyd's Test 6 Ats., R. 17-2-25 or 31-3-25
2 Fuel Pumps	Eng.No. 5477 or 5483, Lloyd's Test 140 Ats. R. 16-1-25, 19-1-25.
Starting Air Distribution Box	Lloyd's Test 140 Ats., WP. 70 Ats. R. 22-6-25
2 Exhaust Silencers	Lloyd's Test 2.5 Ats. R. 22-7-25, 4-8-25
Air Receiver Heads	Eng.No. 5477/5483, Lloyd's Test 140 Ats. WP. 70 Ats. R. 19-6-25.
H.P.Air and Fuel Pipes	150 Ats. R.
I.P., L.P.Air and H.P.Lubricating Pipes	60 Ats. R.



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<u>Item</u>		<u>Marine Diesel Engines Nos. 5477 &amp; 5483, Type 60T60.</u>
2 Injection Air Receivers	Eng. No. 5477 or 5483, 6901 or 6906, 150 Lit. 15-7-20 Lloyd's Test 1988 lbs. 40 or 45 K.H. Test pressure 150 Ats., Working pressure 70 Ats. R. 27-3-25.	
Water Cooling System	3 Ats. each engine 25-7-25, 10-8-25	
10 Starting Air Receivers	Eng. No. 5477 or 5483, 800 Lit. Lloyd's Test 2135 or 2130 lbs. J.Q., H.K., or M.B., Working pressure 70 Ats., R. 7-7-25; Nos. 79, 103, 104, 125, 128, 130, 137, 143, 144 or 145.	

Auxiliary Engines Nos. 14189, 14193 and 14197, Type 4H3L.

12 Cylinders	Eng. No. 14189, 14193 or 14197, Lloyd's Tests Cylinders 75 Ats., Jackets 6 Ats. R. 16-4-25, 20-4-25 or 21-4-25 (on No. 1 cylinder of each engine), 75 Ats./6 Ats. R. 16-4-25, 20-4-25 or 21-4-25 (on No. 2, 3 and 4 cylinder of each engine).	
12 Cylinder Heads.	75 Ats./6 Ats. R. 31-3-25, 8-4-25 or 5-4-25.	
Fuel Valves	Lloyd's Test 200 Ats., R. 15-4-25	
Fuel Valves (reserve)	Lloyd's Test 200 Ats., R. 15-4-25	
Fuel pump	Lloyd's Test 200 Ats. R. 25-2-25, 18-3-25, 27-3-25.	
Starting Air Valves	Lloyd's Test 60 Ats., W.P. 30 Ats., R. 20-2-25	
Starting Air Valve (reserve)	Lloyd's Test 60 Ats., W.P. 30 Ats. R. 19-5-25	
Exhaust Silencers	Lloyd's Test 2.5 Ats., R. 27-7-25.	
Fuel Pipes	200 Ats. R.	
Air Pipes	60 Ats. R.	
Exhaust Pipes	Lloyd's Test 6 Ats. R. 15-4-25.	
Pistons	Lloyd's Test 6 Ats. R. 29-7-25, 31-7-25.	
Daily Service Fuel Tanks	Lloyd's Test 0.5 Ats. R. 24-8-25.	



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<u>Item</u>	<u>Auxiliary Engine No. 14215, Type 2RH24.</u>
2 Cylinders	Eng. No. 14215, Lloyd's Test, Cylinders 75 Ats., Jackets 6 Ats., R 14-4-25 (on No. 1 cylinder) 75 Ats./6 Ats. R 14-4-25 ( " No. 2 " )
2 Cylinder Heads.	75 Ats./6 Ats., R 13-3-25
Fuel Valves	Lloyd's Test 200 Ats. R 8-5-25.
Fuel Valve (reserve)	Lloyd's Test 200 Ats. R 8-5-25
Fuel Pipes	200 Ats. R.
Fuel Pumps	Lloyd's Test 200 Ats. R 1-7-25.
Starting Air Valve	Lloyd's Test 60 Ats., W.P. 30 Ats. R 1-7-25
Starting Air Valve (reserve)	Lloyd's Test 60 Ats. W.P. 30 Ats. R 1-7-25.
Daily Service Fuel Tank	Lloyd's Test 0.5 Ats. R 24-8-25.

Auxiliary Compressor No. 269, Type MC6.

Cylinders	No. 269, Lloyd's Tests, Working cyl. 45 Ats., 1st stage compressor cylinder 35 Ats., 2nd stage compressor cylinder 140 Ats., Jacket 3 Ats., R 26-10-23, 7-5-23.
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*W. G. Fallis*

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