

RETURN of DEFECTS found in BOILERS and FITTINGS in the AUCKLAND DISTRICT during the Financial Year ended the 31st March, 1890.

Description.	Dangerous.	Ordinary.	Total.
Collapsed furnace-flues	1	...	1
Collapsed vertical flues	1	...	1
Tops of fire-boxes out of shape	1	2	3
Corrosion, internal	2	5	7
Corrosion, external	...	10	10
Fractured plates	...	3	3
Blistered plates... ..	...	1	1
Pitted and grooved plates	...	2	2
Tubes defective	...	7	7
Joints sprung	...	5	5
Total defects found in boilers	5	35	40
Defective fittings—			
Safety-valves... ..	...	3	3
Feed-valves and pipes	...	2	2
Pressure-gauges	...	6	6
Water-gauges and test-cocks	...	9	9
Spring-balances	...	3	3
Blow-off cocks and pipes	...	1	1
Omissions—			
Boiler without man-hole	...	1	1
Gross total	5	60	65

Four of the boilers found in a dangerous state have been thoroughly repaired, and are now in good working-order; one condemned.

RETURN of NOTICES given to REPAIR BOILERS in the AUCKLAND DISTRICT during the Financial Year ended the 31st March, 1890.

Date of Notice.	Description of Boiler.	Nature of Repairs ordered.
1889.		
April 26 ...	Portable	Nine of the tubes to be renewed.
April 27 ...	Portable	Fire-box and tubes renewed, and a new safety-valve fitted.
May 6 ...	Portable	Five new tubes and a patch to be fitted at blow-off.
May 10 ...	Vertical tubular	Repairs to be effected to vertical flue.
June 19 ...	Vertical flue	New vertical flue fitted, shell and furnace repaired.
July 8 ...	Portable	Mountings and connections to be overhauled.
Aug. 9 ...	Vertical tubular	New safety-valve fitted, and man-hole cut in shell.
Aug. 16 ...	Cylindrical	New plate fitted to the bottom.
Aug. 22 ...	Cornish	Patch to be fitted to the shell.
Sept. 6 ...	Portable	Two patches to be fitted at sludge-holes.
Sept. 17 ...	Longitudinal tubular	Three-fourths of the tubes renewed.
Sept. 17 ...	Longitudinal tubular	After tube-plate repaired.
Oct. 25 ...	Longitudinal tubular	Patch on front end to be renewed.
Nov. 7 ...	Vertical flue	Part of the vertical flue renewed.
Nov. 7 ...	Vertical flue	New vertical flue to be fitted.
Nov. 13 ...	Semi-portable	Defective place in fire-box to be renewed.
Dec. 2 ...	Portable	Four additional stays to be fitted to top of fire-box.
Dec. 13 ...	Longitudinal tubular	Half-plate in after end to be renewed.
Dec. 16 ...	Portable	Six additional stays to be fitted to top of fire-box.
Dec. 19 ...	Portable	Patch on fire-box tube-plate to be renewed.
Dec. 28 ...	Vertical flue	Upper part of vertical flue renewed.
1890.		
Jan. 17 ...	Longitudinal tubular	To be retubed.
Jan. 17 ...	Vertical flue	Repairs to be effected to upper part of flue.
Jan. 21 ...	Vertical flue	Defective place in shell to be renewed.
Jan. 24 ...	Portable	Patch on top of fire-box taken off and renewed.
Jan. 25 ...	Cylindrical	Three seams in bottom to be pared and caulked.
Jan. 28 ...	Portable	Safety-valve and connections to be overhauled.
Jan. 28 ...	Vertical tubular	Patch to be fitted at sludge-hole, and steam-pipe overhauled.
Feb. 15 ...	Cornish	Patch to be fitted to crown of shell.
Feb. 20 ...	Cornish	Strengthening-ring to be fitted to furnace-flue.
Mar. 6 ...	Portable	New top to be fitted to fire-box, and one side of ditto repaired.
Mar. 14 ...	Cornish	Two half-plates in bottom to be renewed.
Mar. 31 ...	Portable	Four additional stays fitted to top of fire-box.