

Steam Boiler Weekly Analysis Logsheet

Property Name	Boiler Number	Analysis Performed By
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Parameter	Boiler Opacity / Color	Boiler pH	Boiler Conductivity	Boiler Sulfite	Condensate pH	Action Taken
Safe Zone	clear / colorless	10 - 12	< 7000	> 30	8 - 9	OK; no action necessary.
Oct / /						Make-up water meter reading:
Oct / /						
Oct / /						
Oct / /						
Nov / /						
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Mar / /						
Apr / /						
Apr / /						
Apr / /						
Apr / /						Make-up water meter reading:

pH: A measure of acidic or basic conditions; values in the safe zone inhibit acidic (etching) corrosion.
 If Outside Zone (Boiler): If too low, add 1 unit dose *Dipotassium Phosphate* for every 1000 gallons of boiler volume. If too high, increase blow-down frequency until value is in safe zone.
 If Outside Zone (Condensate): If too low, no action is needed; boiler may have drawn a large amount of make-up. If too high, add 1 unit dose *Silicone Emulsion* for every 1000 gallons of boiler volume.

Conductivity: A measure of dissolved inorganic salts in $\mu\text{mhos/cm}$; values in the safe zone inhibit bi-metal (galvanic) corrosion.
 If Outside Zone: Increase blow-down frequency until value is in safe zone.

Sulfite: A measure of *Sodium Sulfite* in ppm; values in the safe zone inhibit oxidative (rusting) corrosion.
 If Outside Zone: Add 1 unit dose *Sodium Sulfite* for every 1000 gallons of boiler volume.