VECOM MARINE

Log for low-pressure boilers
BOILER TREAT COMBI PROGRAMME

Recommended range:

Month / Year: _____ / _____

Boiler: ☐ Primary ☐ Secondary ☐ Other

Vessel / IMO: _____ / _____

Boiler maker / Type: _____ / _____

Company: _____

Operating pressure / water capacity: _____ / _____

Engineer in charge: _____

Makeup water: ☐ Distilled ☐ Shore ☐ Mix

IMPORTANT: If no measurements are taken, leave the relevant cells blank. Never make up or copy from a previous day!

	Day:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
P-alkalinity: CaCO3 (ppm)	> 300																																
	250 - 300																																
	200 - 250																																
	150 - 200																																
	100 - 150																																
	50 - 100																																
	< 50																																
M-alkalinity	> 2*P-alkalinity																																
	< 2*P-alkalinity																																
Boiler Treat Combi (ltr / ton)	1.2 - 1.6																																
	0.8 - 1.2																																
	0.4 - 0.8																																
	0.2 - 0.4																																
	< 0.2																																

Initial dose: 0.4 ltr / ton
Mainten. dosage: 0.20 ltr / ton
<100 ppm: Increase dose 25%
>200 ppm: Decrease dose 10%

Boiler pH	> 11.0																																
	9.5 - 11.0																																
	8.0 - 9.5																																
	< 8.0																																

Appear-ance	Cloudy																																
	Clear																																
	Coloured																																

Chloride: Cl (ppm)	> 240																																
	180 - 240																																
	120 - 180																																
	80 - 120																																
	50 - 80																																
	20 - 50																																
	< 20																																
Blow down	Surface																																
	Bottom																																

<180: Maintain daily blowdown
>180: Increase daily blowdown
Keep chlorides as low as possible

Oxygen Scavenger: DEHA (ppm)	> 0.8																																
	0.5 - 0.8																																
	0.3 - 0.5																																
	0.1 - 0.3																																
	< 0.1																																
Hydrazide (ltr / ton)	0.08 - 0.11																																
	0.05 - 0.08																																
	0.02 - 0.05																																
	< 0.02																																

Initial dose: 0.0225 ltr / ton
0.0225 ltr / ton will decrease oxygen by 1ppm

Condensate pH	> 10.5																																
	9.5 - 10.5																																
	8.5 - 9.5																																
	7.5 - 8.5																																
	6.5 - 7.5																																
	5.5 - 6.5																																
	< 5.5																																
Condensate Treat (ltr / ton)	0.40 - 0.70																																
	0.20 - 0.40																																
	0.10 - 0.20																																
	0.04 - 0.10																																
	< 0.04																																

Initial dose: 0.2 ltr / ton
Daily dosage: 0.04 ltr / ton
<75°C: pH 9.5-10.5
>75°C: pH 9.0-9.5

Hotwell °C	> 95°C																																
	85°C - 95°C																																
	75°C - 85°C																																
	< 75°C																																

Never add chemicals directly to the hotwell

Daily (or min. every 2 days) testing is strongly advised!

Remarks: _____

This log is intended for Vecom Marine's BOILER TREAT COMBI PROGRAMME for low-pressure boilers. It is customised for use with Boiler Treat Combi, Hydrazide and Condensate Treat in conjuction with Test Kit Alkalinity P&M, Test Kit Chloride, Test Kit Oxygen/Hydrazide DEHA and pH Paper 0-14. All recommended limits are for your consideration. Always follow the boiler manufacturer's instructions first.