

PARKER STEAM BOILER QUARTERLY INSPECTION REPORT

CUSTOMER'S NAME	DATE			
ADDRESS	BOILER SIZE			
CITY	SERIAL NO.			
IMPORTANT:	GAS	OIL		
Before making inspection be sure the boiler is cold with no pressure and the electricity and main fuel valve are manually shut off.				
ITEMS FOR INSPECTION	INSPECTION RESULTS		REPAIRS MADE	REMARKS
	CONDITION SATISFACTORY	REPAIRS REQUIRED		
I. INTERNAL BOILER INSPECTION: Inspect, clean, flush, test and replace as needed. Inspection Frequency may be extended after establishing power Water Treatment Program.				
1. Inspection Tubes: Remove 2 or more plugs from each header, at least one upper and one lower.				
A. If Scaled:				
(1) Remove all plugs and flush.				
(2) If hard and over 1/8", chemically clean.				
(3) Send water samples for analysis.				
B. Repair all leaks in unions, nipples, etc.				
C. Always replace gaskets and if required, replace the tube plugs.				
D. Check for soot on exterior of tubes, particularly pilot area.				
2. Steam Drum and Connecting Lines.				
A. Steam Drum: Remove all inspection openings.				
B. Remove plugs on Water Feed Line and inspect.				
C. Remove caps on Blowdown and Mud Legs.				
D. Inspect all Drain Lines.				
II. LOW WATER CUTOFF AND WATER LEVEL CONTROL: Inspect, test, and repair as needed. See Bulletin.				
1. Dismantle for complete internal cleaning and repairs. (Float type only).				
2. Clean float chamber and equalizing piping (Float type only).				
3. Inspect internal assembly. Replace if necessary (Float type only).				
4. Remove control cover and check electrical contacts.				
5. Sand scale buildup off of probes if needed.				
6. Reassemble control.				
7. Carefully test switch action for low water cutoff and pump.				
8. Check secondary low water cutoff, if furnished.				
III. OTHER BOILER TRIM AND CONTROLS: Inspect, clean, test, and repair as needed.				
1. Pump motor starting relay.				
2. Water glass.				
3. Safety valve.				
4. Blow-off valve.				
5. All drain and shut-off valves.				
6. Pressure gauge.				
IV. GAS BURNER AND CONTROLS:				
1. Clean pilot burner, air inlet, and orifice.				
2. Inspect main burners and clean if dirty.				
3. Clean thermocouple or flame sensor.				
4. Test ignition and plot for smooth light.				
5. Test flame safeguard.				
6. Test high limit for proper setting and operation.				
7. Check modulating fire control if furnished. Be certain the control is adjusted for proper modulation and low fire.				
8. Check pressure line to modulating control.				

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	CONDITION SATISFACTORY	REPAIRS REQUIRED		
V. OIL BURNERS AND CONTROLS:				
1. Remove and clean burner. See Burner Service Sheets. Frequency depends on use.				
2. Clean and set electrodes.				
3. Clean burner nozzles.				
4. Clean photocell.				
5. Reassemble and properly position all parts.				
6. Check for proper air adjustment for clean fire and smooth ignition. On two-stage fire or modulating check for clean fire on both, high and low firing. See Adjustment Bulletin.				
7. Check for Proper setting of pressuretrols. See Burner Control System Sheet.				
8. Inspect combustion chamber.				
9. Clean all soot from combustion chamber and external tubes.				
10. Test flame safeguard.				
VI. WATER FEED SYSTEM:				
1. Clean and thoroughly flush return tank and strainer.				
2. Inspect all water feed line. Clean as necessary.				
3. Check float and water tank level. Replace valve disc and leather if leaks.				
4. Inspect pump. Lubricate as needed.				
5. On piston pumps, replace cups and valves annually or as needed.				
6. Lubricate motors as required.				
7. Check and align pump motor.				
8. Test pump discharge. Check valves.				
VII. BLOWDOWN TANK:				
1. Inspect and clean as required.				
2. Inspect all blowdown piping and valves. Replace if there are leaks or indication of weakness.				
3. Inspect blowdown vent.				
4. Inspect drains.				
VIII. OTHER MAINTENANCE:				
1. Check all equipment and repair leaks.				
2. Inspect traps and valves. Repair leaks.				
3. Report any unsafe condition.				
4. Report any increase in fuel costs.				
5. Inspect boiler vent and cap.				
6. Check for adequate air supply to boiler room area.				
IX. OPERATOR'S MAINTENANCE CHECK-UP:				
1. Are complete blowdowns made on days recommended?				
2. Are partial blowdowns made daily?				
3. Is the water column and switch drain flushed daily?				
4. Is water softener tested and regenerated before water?				
5. Is boiler compound used properly?				
6. Have all leaks been repaired?				
7. Are all items on Weekly Boiler Maintenance Report followed?				
8. Are water samples taken periodically?				
X. REMARKS AND RECOMMENDATIONS:				
<p>THE PURPOSE OF THIS INSPECTION REPORT IS TO SERVE AS A DETAILED INSPECTION AND MAINTENANCE GUIDE TO THE OPERATOR FOR OBTAINING THE BEST IN SAFETY AND OPERATING LIFE FROM THE EQUIPMENT. PROPER ATTENTION TO ALL ITEMS WILL MAKE POSSIBLE THE CORRECTION OF UNSAFE CONDITIONS, BEFORE EXPENSIVE REPAIRS ARE EXPERIENCED.</p> <p>IT IS SUGGESTED THAT THE OPERATOR MAKE OUT THIS REPORT MONTHLY UNTIL CERTAIN THE MAINTENANCE IS PROPER AND EVERY 3 MONTHS AS A MINIMUM. IT IS SUGGESTED TO REVIEW THIS REPORT WITH THE BOILER INSPECTOR AT THE ANNUAL BOILER INSPECTION AND ADD ANY ITEMS OF INSPECTION SUGGESTED. THIS REPORT SHOULD BE FILED WITH THE MANAGER OR OWNER WITH RECOMMENDATIONS.</p>				

BOILER OPERATOR

DEPARTMENT MANAGER