

## LiBr Analysis - Molybdate

**Sample Number :** KRR062-019  
**Job Name :** General Hospital  
**Customer Name :** Joe's AC Service  
**Manufacturer :** Carrier  
**Unit Model :** 16JB047/068  
**Serial Number :** 12345  
**Equipment ID :** 12345  
**Machine Hours :** None

**Report Number :** RR01466-001  
**Date Sampled :** 12/9/2002  
**Sampled By :** Joe Smith  
**Contact Person :** Joe Smith  
**Date Received :** 2/26/2003  
**Date Analyzed :** 3/1/2003  
**Reported By :** Mara Dooley

Units	Limits	Current Sample	Previous Samples		
			6/5/2002	12/10/2001	6/18/2001
LiBr wt%	> 58% preferred	53.07	54.15	55.8	55.32
Specific Gravity at 75°F		1.581	1.601	1.632	1.623
Dissolved Copper ppm		<1	<1	<1	<1
Total Alkalinity N LiOH		0.06	0.085	0.102	0.118
Lithium Molybdate ppm		116	120	119	133
Ammonia ppm		13	3	7	5
Suspended Solids ppm		<1	<1	<1	<1
Adjusted Concentration wt%		55	55	55	55
Adjusted Specific Gravity at 75°F		1.617	1.617	1.617	1.617
Adjusted Dissolved Copper ppm	< 25	<1	<1	<1	<1
Adjusted Total Alkalinity N LiOH	0.080 - 0.120	0.063	0.087	0.1	0.117
Adjusted Lithium Molybdate ppm	> 100	120	122	117	132
Adjusted Ammonia ppm	< 150	14	3	7	5
Adjusted Suspended Solids ppm	< 50	<1	<1	<1	<1
General Appearance (as received)		Clear	Clear	Clear	Clear
General Appearance (after filtration)		Clear	Clear	Clear	Clear

### Comments:

None

### RECOMMENDATIONS:

Alkalinity is low. Add 0.000956 kg lithium hydroxide monohydrate per kg lithium bromide solution in the unit. This equals 1997 g lithium hydroxide monohydrate to be added to the unit calculated using a solution capacity of 2089.

*This report is based on a single sample. Tracking multiple samples over time provides the best information about equipment and fluid condition.*