SHILSTONE ENGINEERING TESTING LABORATORY, INC.
NEW ORLEANS LA
ZIP CODE 70112
814 CONTI ST
PHONE (504) 524-8395

TESTED FOR	OLYMPIA SUPPLY, INC. 108 STELLA STREET METAIRIE, LA. 70005 Attn: Mr. W. Manion	PROJECT	METAL STRIPS FOR ANALYSIS
DATE	10/11/78	OUR REPORT NO	77-8488-1

REMARKS: STUDY OF CHEMICAL CORROSION RESISTANCE OF LEAD

METHODOLOGY:

Pre-weighted strips of lead were immersed into a bath of water containing dissolved chlorine at a concentration of 1.5 to 2.5 ppm. The pH of the solution was kept at approximately 7.4. Two sets of samples were run: one in which the water temperature was kept at 70 to 75°F and the other where the water temperature was maintained at 95°F. Control samples, with no strips of lead immsersed in them, were run alongside the test samples. The concentration of lead on both, the test solutions and the control solutions, were determined five times over a span period of 12 days. For the lead analysis, a Perkins-Elmer 460 Atomic Absorption Spectraphotometer was employed.

RESULTS:

The reults of these analyses are given in tabular form as follows:

SAMPLE NO. (HOURS OF IMMERSION)	SOLUTION TEMP. : 70-75° INITIAL LEAD TRIP WT:: 73.4363 gr. CONTROL SOLUTION LEAD CONTENT PPM (Mg/Liter)	SOLUTION TEMP. : 70-75° INITIAL LEAD TRIP WT:: 73.4363 gr. TEST SOLUTION LEAD CONTENT PPM (Mg/Liter)	SOLUTION TEMP. : 95° INITIAL LEAD TRIP WT:: 72.5473 gr. CONTROL SOLUTION LEAD CONTENT PPM (Mg/Liter)	SOLUTION TEMP. : 95° INITIAL LEAD TRIP WT:: 72.5473 gr. TEST SOLUTION LEAD CONTENT PPM (Mg/Liter)
1 (0 Hours)	None detected Less than .05	None detected Less than .05	None detected Less than .05	None detected Less than .05
2 (48 Hours)	None detected Less than .05	None detected Less than .05	None detected Less than .05	None detected Less than .05
3 (96 Hours)	None detected Less than .05	None detected Less than .05	None detected Less than .05	None detected Less than .05
4 (168 Hours)	None detected Less than .05	None detected Less than .05	None detected Less than .05	None detected Less than .05
5 (240 hours)	None detected Less than .05	None detected Less than .05	None detected Less than .05	None detected Less than .05
6 (288 Hours)	None detected Less than .05	None detected Less than .05	None detected Less than .05	None detected Less than .05

After the 12 days of testing the lead strips were reweighed and were found to gain 0.0008% of their original weight. A microscopic examination of the strips showed no pitting or corrosion signs.

NOTE: A total of 250 ml of solution was employed on all of the tests.

Respectfully submitted,
Vincente Diaz
Chief Chemist
Analytical Laboratory