



September 16, 2008

Project # 0808.000

Company  
9999 Address Street  
Seattle, WA 98107

Phone: (206) 555-1212

**Attn: John Doe**

### **FTIR and XRF Analysis of -- Products**

The first three samples submitted are natural or synthetic rubbers with a variety of fillers including silica and nickel oxide. No phthalates were detected at high levels, nor would we expect any in these materials. Testing for heavy metals by XRF is advisable due to the nature of the fillers.

The next two samples are urethane-based and as such contain no traces of phthalates. The last stamp is polystyrene and again does not show any signs of phthalates. Heavy metals testing is not advised for the clear samples both due to the lack of pigment and the nature of the materials.

**Addendum: XRF Results.** None of the samples showed exceedingly high levels of banned heavy metals. Sample 02 showed 14 ppm lead and sample 03 showed 17 ppm lead, both well below the legal limits, yet still notable. Titanium and iron are present in high levels as pigment but are not regulated in this application.

This report contains the results of FTIR and XRF spectroscopy on samples submitted by J. Doe on 08/08/08.

<b>LCM Sample ID</b>	<b>Client Sample ID</b>	<b>Description</b>	<b>Results</b>
0808.000-01	--	Rubber stamp	Phthalates: PASS
0808.000-02		"	Phthalates: PASS
0808.000-03		"	Phthalates: PASS
0808.000-04		Urethane stamp	Phthalates: PASS
0808.000-05		"	Phthalates: PASS
0808.000-06		Styrene stamp	Phthalates: PASS

#### **Comment**

FTIR and XRF reports are attached

R. M. Fisher, PhD  
Chief Scientist

C. K. Brown  
Laboratory Supervisor



## XRF Elemental Analysis Results

0808.000-01: --

Element details (ppm)

Ca: 10.51% (+/- 1532)

Fe: 5.89% (+/- 529)

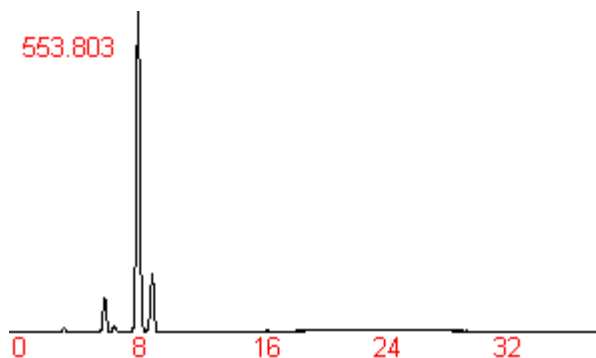
Co: 262 (+/- 83)

Cu: 93 (+/- 29)

Zn: 27.81% (+/- 2311)

Pb: 14 (+/- 2)

Mo: 27 (+/- 7)



0808.000-02: --

Element details (ppm)

Ca: 10.51% (+/- 1532)

Fe: 5.89% (+/- 529)

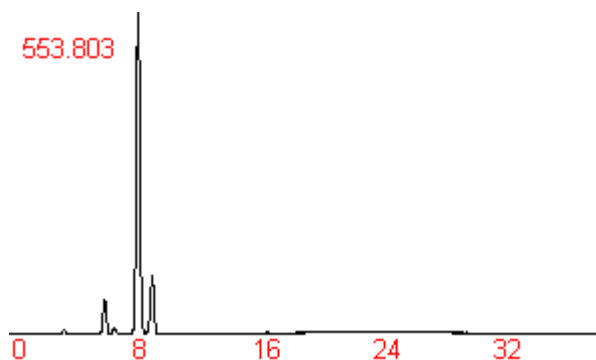
Co: 262 (+/- 83)

Cu: 93 (+/- 29)

Zn: 27.81% (+/- 2311)

Pb: 14 (+/- 2)

Mo: 27 (+/- 7)



0808.000-03: --

Element details (ppm)

Ca: 13.14% (+/- 1949)

Fe: 6.94% (+/- 678)

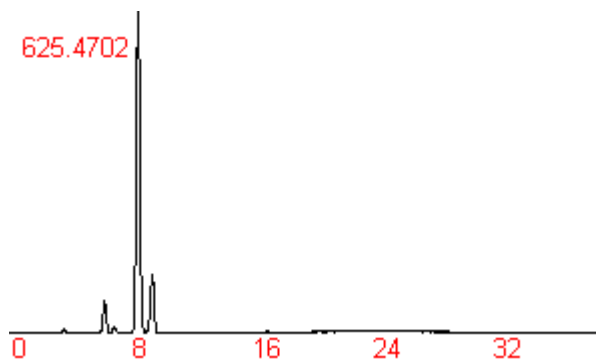
Co: 319 (+/- 100)

Zn: 36.59% (+/- 3340)

Pb: 17 (+/- 2)

Bi: 7 (+/- 2)

Mo: 148 (+/- 9)





# Lab/Cor Materials

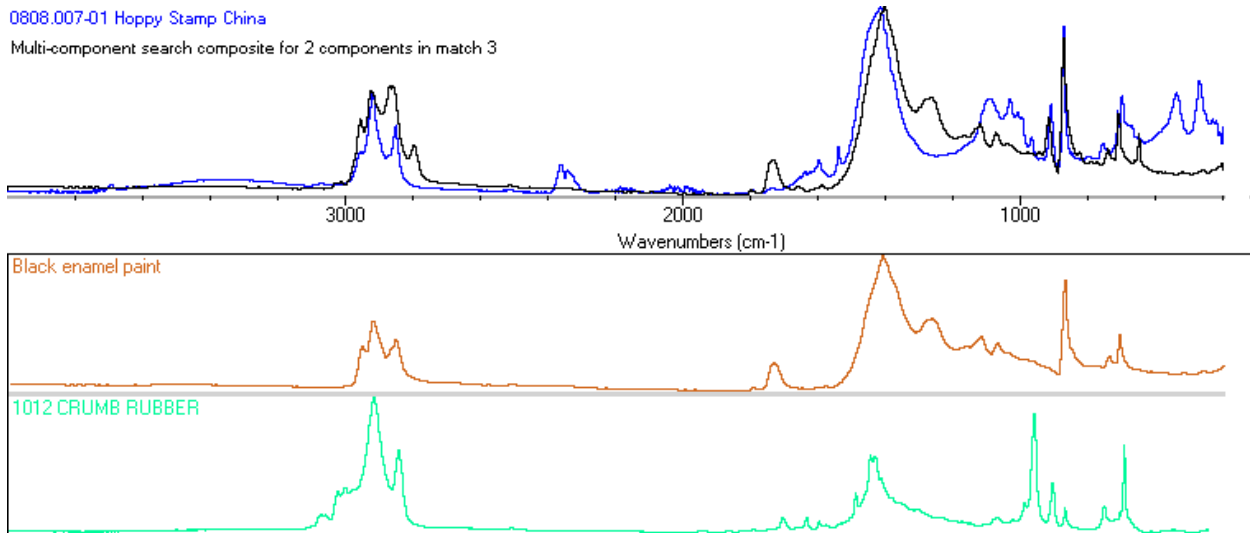
FTIR Report

0808.007-01

## Multi-Component Search Results

0808.007-01 Hoppy Stamp China

Multi-component search composite for 2 components in match 3



	Match	Title	Cumulative	Compo site%	Folder	File name	Index
3	61.21	Black enamel paint	51.38	74.27	Common Materials	c:\my documents\omnic\libs\sea263_common materials.lbd	52
		1012 CRUMB RUBBER	61.21	25.73	HR Industrial Coatings	c:\my documents\omnic\libs\sea431_hr industrial coatings.lbd	1600



# Lab/Cor Materials

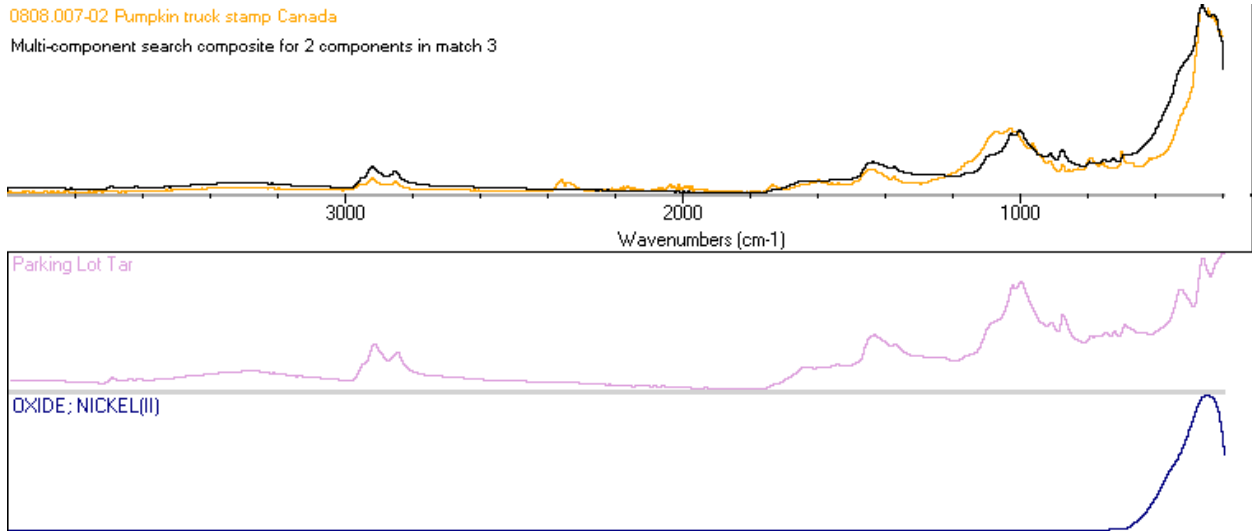
FTIR Report

0808.007-02

## Multi-Component Search Results

0808.007-02 Pumpkin truck stamp Canada

Multi-component search composite for 2 components in match 3



	Match	Title	Cumulative	Compo site%	Folder	File name	Index
3	45.20	Parking Lot Tar	27.67	40.68	Common Materials	c:\my documents\omniclibs\sea263_common materials.lbd	242
		OXIDE; NICKEL(II)	45.20	59.32	HR Inorganics	c:\my documents\omniclibs\sea458_hr inorganics.lbd	1316



# Lab/Cor Materials

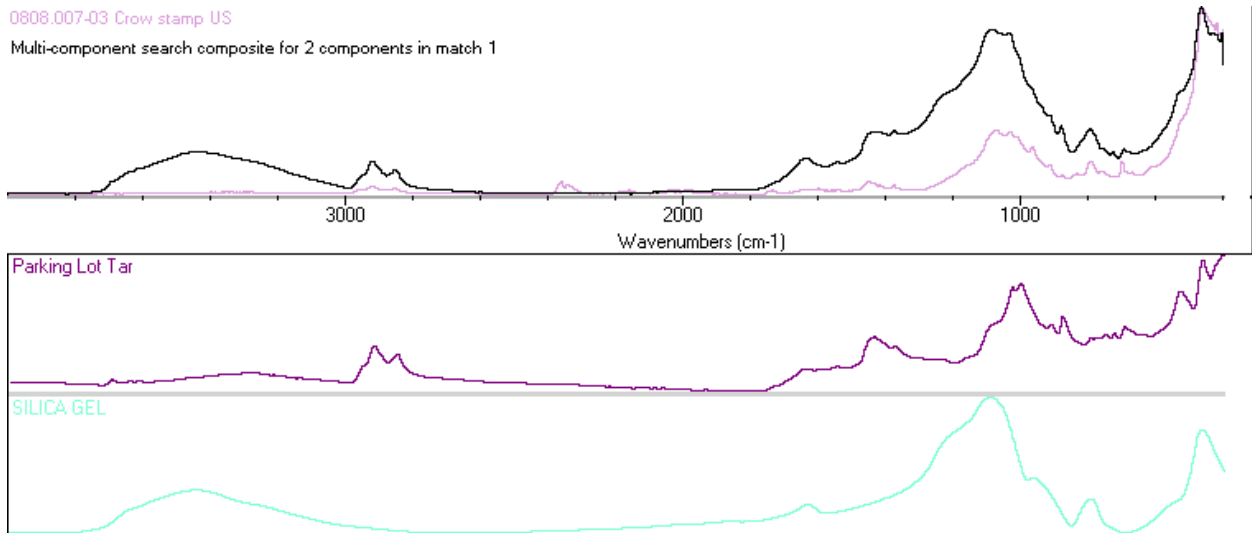
FTIR Report

0808.007-03

## Multi-Component Search Results

0808.007-03 Crow stamp US

Multi-component search composite for 2 components in match 1



	Match	Title	Cumulative	Compo site%	Folder	File name	Index
1	49.76	Parking Lot Tar	28.06	47.04	Common Materials	c:\my documents\omnic\libs\sea263_common materials.lbd	242
		SILICA GEL	49.76	52.96	HR Inorganics	c:\my documents\omnic\libs\sea458_hr inorganics.lbd	1403



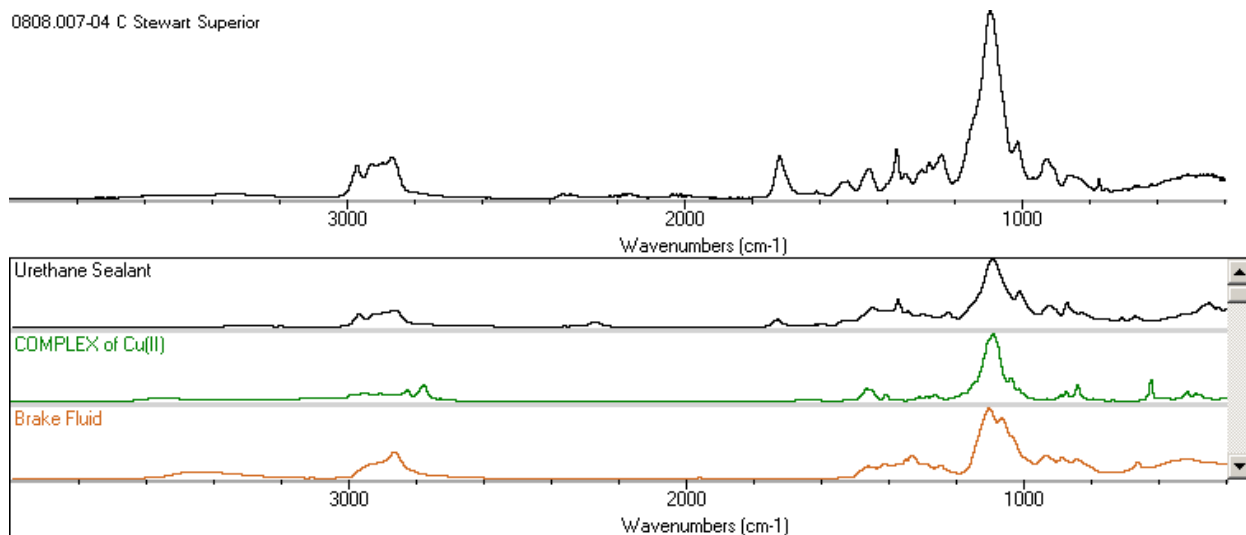
# Lab/Cor Materials

FTIR Report

0808.007-04

## Spectrum Search Results

0808.007-04 C Stewart Superior



	Match	Title	Range	Folder	Filename	Index
1	93.11	Urethane Sealant	3996.0-401.0	Common Materials	c:\my documents\omnic\libs\sea263_common materials.lbd	57
2	91.02	COMPLEX of Cu(II)	3999.0-400.0	HR Inorganics	c:\my documents\omnic\libs\sea458_hr inorganics.lbd	1066



# Lab/Cor Materials

3	90.69	Brake Fluid	3996.0-401.0	Common Materials	c:\my documents\omnic\libs\sea263_common materials.lbd	17
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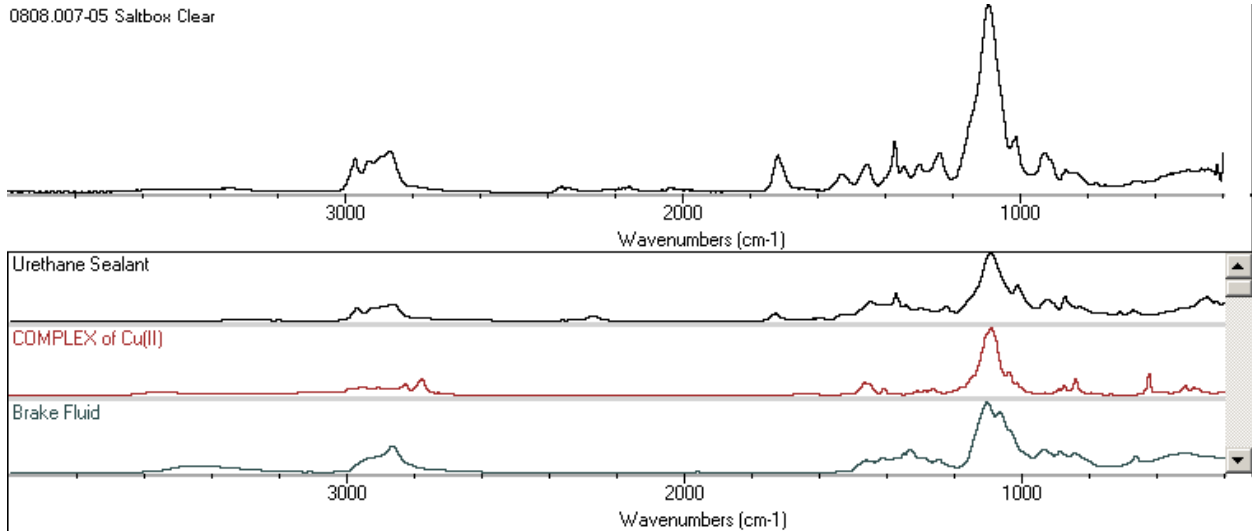
# Lab/Cor Materials

FTIR Report

0808.007-05

## Spectrum Search Results

0808.007-05 Saltbox Clear



	Match	Title	Range	Folder	Filename	Index
1	93.01	Urethane Sealant	3996.0-401.0	Common Materials	c:\my documents\omnic\libs\sea263_common materials.lbd	57
2	91.56	COMPLEX of Cu(II)	3999.0-400.0	HR Inorganics	c:\my documents\omnic\libs\sea458_hr inorganics.lbd	1066



# Lab/Cor Materials

3	90.70	Brake Fluid	3996.0-401.0	Common Materials	c:\my documents\omnic\libs\sea263_common materials.lbd	17
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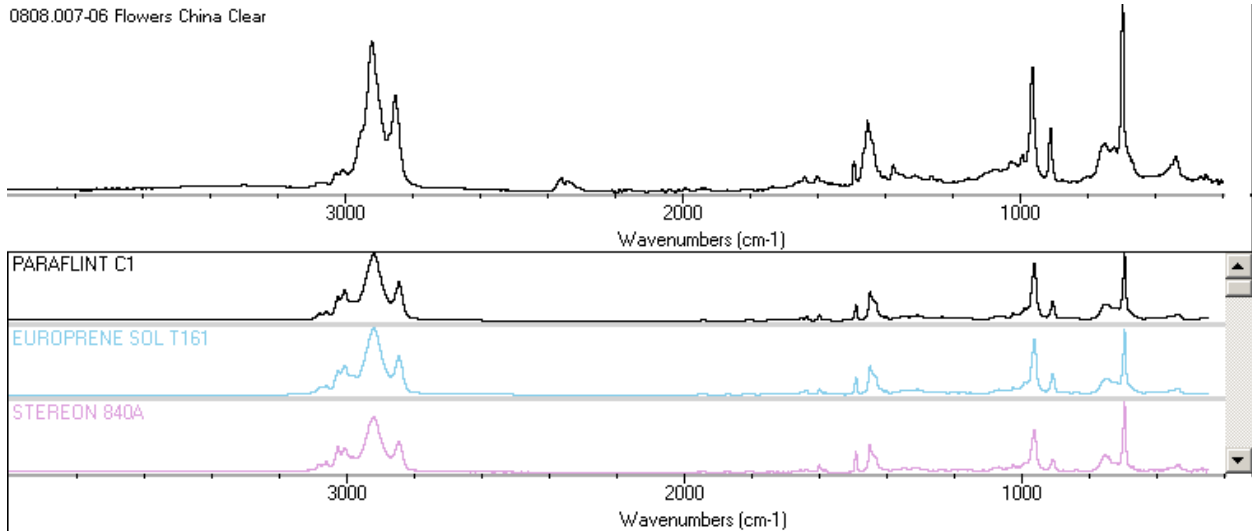
# Lab/Cor Materials

FTIR Report

0808.007-06

## Spectrum Search Results

0808.007-06 Flowers China Clear



	Match	Title	Range	Folder	File name	Index
1	92.69	PARAFINT C1	4000.0-450.0	HR Industrial Coatings	c:\my documents\omnic\libs\sea431_hr industrial coatings.lbd	1458
2	92.68	EUROPRENE SOL T161	4000.0-450.0	HR Industrial Coatings	c:\my documents\omnic\libs\sea431_hr industrial coatings.lbd	1292



# Lab/Cor Materials

3	92.19	STEREON 840A	4000.0-450.0	HR Industrial Coatings	c:\my documents\omnic\libs\sea431_hr industrial coating s.lbd	473
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