

## TEST REPORT SR 2085/20

**Client:** V Fair Trade Com. e Exportação de Calçados e Acessórios Ltda EPP.  
**Address:** 270, 17 de April Street, Campo Bom – RS – Brazil.

### Shoe description and client identification:

- a) One (01) sample of white and metallic rose coloured shoe.  
Style: Esplar Velcro ChromeFree Leather Extra White Petale Venus (RSV052277).
- b) One (01) sample of white, grey and red coloured shoe.  
Style: V-10 Velcro CWL White Marsala (CXV072415).



### Sample identification (groups):

- 1) 1.1 “Leather Chrome Free Extra White”. Style: a  
1.2 “Leather Chrome Free Metalized Venus”. Style: a  
1.3 “Leather Chrome Free Metalized Nacre”. Style: a
- 2) 2.1 “Cotton Canvas – 0459”. Style: a, b  
2.2 “Jersey Alpo Pure”. Style : a, b  
2.3 “Cotton Fabric – VCX 43P”. Style : a, b
- 3) “Insole – Palmisoft SPL 220 R”. Style: a, b
- 4) “Vegan Suede – Nobuck Plus SU18 Natural”. Style: b
- 5) “Grosgrain – PH0258 White”. Style: b
- 6) 6.1 “Rubber V – Petale”. Style: a  
6.2 “Rubber V – Marsala”. Style: b  
6.3 “Outsole – RB 2372 Pierre”. Style: b
- 7) “Velcro – 100 mm”. Style: a, b

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- 8) 8.1 "Counter – Termofort 23HT DK". Style: a, b  
8.2 "Counter – Entrefix Ref.1145N". Style: a  
8.3 "Toe puff – Max Soft 05". Style: b
- 9) 9 "PU Foam – H160 10mm". Style: a, b
- 10) "Footbed EVA – TS 21 Dur. 58 / TS 09 – 02 Dur. 58". Style: a, b
- 11) "Tag Transfer Nylon". Style: a, b
- 12) 12.1 "C.W.L. – Rinnova". Style: b  
12.2 "Laminated – PU Synthetic Marsala". Style: b
- 13) "Eyelet and Washer I-08 LP / I-26". Style: b

**Application:** 50781

**Date of entry:** 07/21/2020

**Date of the test:** 07/23 until 08/05/2020.

### TESTS AND RESULTS

#### Determination of pH Value using KCI (ISO 3071/20)

Sample	Results (ppm)	Orientation (Client)	Evaluation
2.1	6.5	4.0 – 7.5	PASS
2.2	6.5		PASS
2.3	6.1		PASS
3	5.6		PASS
4	6.4		PASS
5	5.6		PASS
12.1	6.3		PASS
12.2	5.8		PASS

#### Determination of pH Value (ISO 4045/18)

Sample	Results (ppm)	Orientation (Client)	Evaluation
1.1	4.2	4.0 – 7.5	PASS
1.2	4.3		PASS
1.3	4.3		PASS

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### Determination of metal content

Part 1: Determination of metals using microwave digestion (BS EN 16711-1:2015) Analysis performed by ICP-OES

Sample	Results (ppm)	Orientation (Client) Maximum	Evaluation
1.2 + 1.3	Lead (Pb) < LQM	300 or less	PASS
1.1 + 1.2 + 1.3	Cadmium (Cd) < LQM	75 or less	PASS
2.1 + 2.2 + 2.3	Cadmium (Cd) < LQM	75 or less	PASS
3	Cadmium (Cd) < LQM	75 or less	PASS
4	Cadmium (Cd) < LQM	75 or less	PASS
5	Cadmium (Cd) < LQM	75 or less	PASS
	Lead (Pb) < LQM	300 or less	PASS
6.1 + 6.2 + 6.3	Cadmium (Cd) < LQM	75 or less	PASS
	Lead (Pb) < LQM	300 or less	PASS
7	Cadmium (Cd) < LQM	75 or less	PASS
	Lead (Pb) < LQM	300 or less	PASS
8.1 + 8.2 + 8.3	Cadmium (Cd) < LQM	75 or less	PASS
	Lead (Pb) < LQM	300 or less	PASS
9	Cadmium (Cd) < LQM	75 or less	PASS
10	Cadmium (Cd) < LQM	75 or less	PASS
	Lead (Pb) < LQM	300 or less	PASS
11	Cadmium (Cd) < LQM	75 or less	PASS
	Lead (Pb) < LQM	300 or less	PASS
12.1 + 12.2	Cadmium (Cd) < LQM	75 or less	PASS
12.2	Lead (Pb) < LQM	300 or less	PASS
13	Cadmium (Cd) < LQM	75 or less	PASS
	Lead (Pb) <b>52.07</b>	300 or less	PASS

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### Determination of certain aromatic amines derived from azo colorants (ISO 17234-1/15)

Sample	Results (ppm)	Orientation (Client)	Evaluation
1.2 + 1.3	< LQM	Maximum: 30 or less (each)	PASS

### Determination of certain aromatic amines derived from azo colorants with and without extraction (BS EN ISO 14362-1/17)

Sample	Results (ppm)	Orientation (Client)	Evaluation
5	< LQM		PASS
11	< LQM	Maximum: 30 or less (each)	PASS
12.2	< LQM		PASS

**Amines analyzed:** Azo dyes can release by cleavage of their azo group, one or more of the amines listed: 2,6-Dimethylaniline, 2-Methylaniline, 4-Chloroaniline, 2-Methoxy-5-Methylaniline, 2,4,5-Trimethylaniline, 4-Chloro-2-Methylaniline, 2,4-Diaminotoluene, 2,4-Diaminoanisole, 2-Naphthylamine, 2-Methyl-5-Nitroaniline, 4-Aminobiphenyl, 4-Aminoazobenzene, 4,4'-Oxydianiline, 4,4'-Diaminobiphenyl, 4,4'-Diaminodiphenylmethane, 4'-Amino-2,3'-Dimethylazobenzene, 4,4'-Methylene-bis(2-methylaniline), 3,3'-Dimethylbenzidine (o-Tolidine), 4,4'-Thiodianiline, 3,3'-Dichlorobenzidine, o-Dianisidine, 4,4'-Methylene bis(2-chloroaniline), o-Anisidine, 2,4-Dimethylaniline.

### Chemical determination of formaldehyde content – Part 1: Method using HPLC (ISO 17226-1/18)

Sample	Results (ppm)	Orientation (Client)	Evaluation
1.2 + 1.3	30.6	Maximum: A) < 36 meses: 20 ppm or less B) >36 meses: 75 ppm or less	Item B: PASS

### Determination of trichlorophenol and pentachlorophenol content (ISO 17070/15)

Sample	Results (ppm)	Orientation (Client)	Evaluation
1.2 + 1.3	< LQM	Maximum: < 36 meses: 20 ppm or less >36 meses: 75 ppm or less	PASS

**Phenol analyzed:** 2,3,4-trichlorophenol, 2,3,5-trichlorophenol, 2,3,6-trichlorophenol, 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, 3,4,5-trichlorophenol, Pentachlorophenol.

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### Determination of Pentachlorophenol (PCP) (64 LFGB B82.02-8)

Sample	Results (ppm)	Orientation (Client)	Evaluation
5	< LQM	Maximum: < 36 meses: 20 ppm or less >36 meses: 75 ppm or less	PASS
11	< LQM		PASS
12.2	< LQM		PASS

**Phenol analyzed:** 2,3,4-trichlorophenol, 2,3,5-trichlorophenol, 2,3,6-trichlorophenol, 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, 3,4,5-trichlorophenol, Pentachlorophenol.

### Determination of chromium (VI) content (ISO 17075-1/17)

Sample	Results (ppm)	Orientation (Client)	Evaluation
1.2 + 1.3	< LQM	Maximum: 3 ppm or less	PASS

### Textile – Determination of formaldehyde (ISO 14184-1/11)

Sample	Results (ppm)	Orientation (Client)	Evaluation
5	< LQM	Maximum: < 36 meses: 20 ppm or less >36 meses: 75 ppm or less	PASS
11	< LQM		PASS
12.2	< LQM		PASS

### Determination of phthalate content (CPSC-CH-C 1001-09.3/2018)\*

Sample	Results (%)	Orientation (Client)	Evaluation
6.1 + 6.2 + 6.3	< LQM	Maximum: 0.1 % (1000 ppm) or less	PASS
7	< LQM		PASS
8.1 + 8.2 + 8.3	< LQM		PASS
10	< LQM		PASS
11	< LQM		PASS
12.2	< LQM		PASS

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### Determination of organotin compounds (ISO/TS 16179:2012)

Sample	Results (ppm)	Orientation (Client)	Evaluation
1.2 + 1.3	< LQM		PASS
5	< LQM		PASS
6.1 + 6.2 + 6.3	< LQM	Maximum: DBT: 1.0 ppm or less	PASS
7	< LQM		PASS
8.1 + 8.2 + 8.3	< LQM	TBT: < 36 meses: 0.5 ppm or less >36 meses: 1.0 ppm or less	PASS
10	< LQM		PASS
11	< LQM		PASS
12.2	< LQM		PASS

### Determination of dimethylfumarate – DMFU (ISO 16186/12)

Sample (groups)	Results (ppm)	Orientation (Client)	Evaluation
5	< LQM		PASS
6.1 + 6.2 + 6.3	< LQM		PASS
7	< LQM		PASS
8.1 + 8.2 + 8.3	< LQM	Maximum: 0,1 ppm	PASS
10	< LQM		PASS
11	< LQM		PASS
12.2	< LQM		PASS

### Test method for release of nickel (BS EN 1811/11)

### Method for the simulation of wear and corrosion (BS EN 12472/05 + A1:2009)

Sample	Results (µg/cm <sup>2</sup> /week)	Orientation (Client)	Evaluation
13	< LQM	Maximum 0,5 µg/cm <sup>2</sup> /week	PASS

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### Quantification Limit of Method – LQM

- <b>Formaldehyde (Leather):</b> 1.29090ppm		
- <b>Formaldehyde (Textile):</b> 16.4 ppm		
- <b>Dimethylfumarate:</b> 0.08 ppm		
- <b>Azo Dyes:</b> 5 ppm per amine		
- <b>Phthalates (%):</b>		
Di-(2-ethyl-hexyl) phthalate (DEHP): 0.015	Dibutylphthalate (DBP): 0.015	Benzylbutylphthalate (BBP): 0.015
Diisononylphthalate (DINP): 0.015	Diisodecylphthalate (DIDP): 0.015	
Di-n-octyl phthalate (DNOP): 0.015		
- <b>BS EN 16711-1 (Total):</b>		
Lead (Pb): 16.7 ppm		
Cadmium (Cd): 16.7 ppm		
- <b>Chromium VI:</b> 3.00 ppm		
- <b>Phenols:</b> 0.05 ppm per phenol		
- <b>Organotin:</b>		
Dibutyltin (DBT): 0.1 ppm		
tributyltin (TBT): 0.1 ppm		
- <b>BS EN 1811 Nickel (Ni):</b> 0.05 ug/cm <sup>2</sup> /week		

### Considerations:

Recovery rate: 70.0%; (Recovery rates of less than 80% may be an indication that the matrix contains reducing agents, these can interfere with the result).

Photometric cell: (Chromium VI test): 10 mm

Sample area: 51.44 cm<sup>2</sup>

Volume test solution: 50 mL

The piece is submitted to pretreatment as BS EN 12472 for subsequent determination of nickel as BS EN 1811/11.

ppm (parts per million) = mg/kg

Sampling was carried by client.

The tests were performed in the laboratory permanent facilities.

At the customer's request, the samples were taken from the footwear and grouped. In case of a positive result, IBTeC recommends testing each separate sample.

With no further information for the time being, we now issue the present report.

This report integrates the sheet of signatures attached.

Novo Hamburgo, August 06<sup>th</sup>, 2020.

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## TEST REPORT SR 2085/20

*Aline Luana Ghiggi*

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Technical Analyst  
Aline Luana Ghiggi - Chemical technician  
CRQ 05409348 - 5ª Region

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Chemical Analysis Laboratory      Technical Report N° 3007/20      Service Order N° 1549/20      Page N° 1/1

**Requirer:** CBC COUROS E ACABAMENTOS LTDA  
**Address:** Est. Leopoldo Petry, 255 – Novo Hamburgo – RS.  
**Date of receipt of sample:** 08/25/2020

**Sample characterization:** 01 sample of finished leather, identified by the customer as: "CLIENTE: VEJA ARTIGO: PP METALIZADO EASY VÊNUS 12/14"

**Selection of samples:** up to the requirer.

**Sampling:** up to the laboratory.

TEST					
	Results		Quantification Limit	Unit	Procedure
	On Moisture Basis	On Free Moisture Basis			
Sample 1 /FQ 3007/20("CLIENTE: VEJA ARTIGO: PP METALIZADO EASY VÊNUS 12/14")					
1 – Formaldehyde <sup>1</sup> (*)	10.9	12.6	0.50	mg/kg	ISO 17226-1:2018

<sup>1</sup>Chromatographic determination (liquid chromatography - HPLC) of free and/or hydrolyzed formaldehyde.

(\*) TEST ACCREDITED BY THE GENERAL ACCREDITATION COORDINATION – CGCRE.

**EXAMINATION PERFORMED:** 08/25 to 09/04/2020.

**TRACKING EQUIPMENT USED FOR TEST:**

-NI 102 Balance, with calibration certificate RBC 005688/2019 emitted by INSTITUTO SENAI DE INOVAÇÃO EM METALMECÂNICA-CETEMP and valid until 12/2020;

-NI 184 Thermometer, with calibration certificate RBC 7A37SC19 emitted by METROSUL and valid until 01/2021.

Estância Velha, September 04<sup>th</sup>, 2020.



Technical Analyst  
Lucas Zoldan  
CRQ 05202050

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Revision 04  
LZ

Chemical Analysis	Technical Report	Service Order	Page
Laboratory	Nº 3008/20	Nº 1549/20	Nº 1/1

**Requirer:** CBC COUROS E ACABAMENTOS LTDA

**Address:** Est. Leopoldo Petry, 255 – Novo Hamburgo – RS.

**Date of receipt of sample:** 08/25/2020

**Sample characterization:** 01 sample of finished leather, identified by the customer as: "CLIENTE: VEJA ARTIGO: PP METALIZADO EASY NACRE 12/14"

**Selection of samples:** up to the requirer.

**Sampling:** up to the laboratory.

TEST					
	Results		Quantification Limit	Unit	Procedure
	On Moisture Basis	On Free Moisture Basis			
Sample 1 /FQ 3008/20("CLIENTE: VEJA ARTIGO: PP METALIZADO EASY NACRE 12/14")					
1 – Formaldehyde <sup>1</sup> (*)	16.6	19.1	0.50	mg/kg	ISO 17226-1:2018

<sup>1</sup>Chromatographic determination (liquid chromatography - HPLC) of free and/or hydrolyzed formaldehyde.

(\*) TEST ACCREDITED BY THE GENERAL ACCREDITATION COORDINATION – CGCRE.

**EXAMINATION PERFORMED:** 08/25 to 09/04/2020.

**TRACKING EQUIPMENT USED FOR TEST:**

-NI 102 Balance, with calibration certificate RBC 005688/2019 emitted by INSTITUTO SENAI DE INOVAÇÃO EM METALMECÂNICA-CETEMP and valid until 12/2020,

-NI 184 Thermometer, with calibration certificate RBC 7A37SC19 emitted by METROSUL and valid until 01/2021.

Estância Velha, September 04<sup>th</sup>, 2020.

  
Technical Analyst  
Lucas Zoldan  
CRQ 05202050

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