

# TECHNICAL REPORT

for  
**Bent-Erik Weiglin-Chrone**  
**Scan-Hide A/S**  
 Industrivej 15  
 Vester Skerninge  
 DENMARK  
 5762

|                           |               |                             |                    |
|---------------------------|---------------|-----------------------------|--------------------|
| <b>Customer Order No:</b> | -             | <b>Job Reference:</b>       | EFS623110962-CG-01 |
| <b>Supplied by:</b>       | Not Specified | <b>Date Work Confirmed:</b> | 29/11/2023         |
| <b>Supplying to:</b>      | Not Specified | <b>Date Completed:</b>      | 06/12/2023         |

## Testing to BLC-RSL 16118, 16162, 16168, 16154(WW)

See End of Report for Images of Samples

The samples tested in this report have been assessed against the requirements of the specifications listed for the **SELECTED TESTS ONLY**. Statements of compliance against any specification relate exclusively to the sample tested as requested by the client and may not be representative of full specification testing:

### **Eurofins BLC | Restricted Substances Specification 2023 V1**

According to the requirements, the sample(s) were found to:

**Not Comply**

with the requirements of the above specification.

## Additional comments/information (if relevant)

Please note, for the test result denoted with #, the uncertainty of measurement when applied indicates there is a risk of false acceptance or false rejection. The risk of false acceptance or false rejection is 2.5% based on a conformance probability of 97.5%.



Kieran Stevens  
Report Writer .



Saba Frezghi  
Laboratory Operations  
Manager .

### DETAILS OF SAMPLE RECEIVED

| Sample Reference | Description | Unique Reference/Identifier |
|------------------|-------------|-----------------------------|
| A                | 16118 WB    | -                           |
| B                | 16162 WB    | -                           |
| C                | 16168 WB    | -                           |
| D                | 16154 (WW)  | -                           |
| E                | 16181 (WX)  | -                           |

### TEST RESULT SUMMARY

| Test                                         | Method                                                                                                                                   | Pass/Fail             |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Chromium VI - After Heat Ageing              | Heat Ageing followed by BS EN ISO 17075-2:2017<br>(80 ± 2)C and relative humidity less than 10% for 24 h, BS EN ISO 10195:2021 method A2 | Pass                  |
| Chromic Oxide Content                        | BS EN ISO 5398-4:2019                                                                                                                    | Fail                  |
| Chromium VI                                  | BS EN ISO 17075-2:2017                                                                                                                   | Pass                  |
| EN 71-3:2019 + A1:2021 (Including Chrome VI) | EN71-3:2019 + A1:2021                                                                                                                    | Pass<br>(See Comment) |
| Formaldehyde                                 | BS EN ISO 17226-1:2021                                                                                                                   | Pass                  |
| Fungicide Analysis                           | BS EN ISO 13365-1:2020                                                                                                                   | Pass                  |
| Grease + Free Fatty Acids                    | BS EN ISO 4048:2018                                                                                                                      | Fail                  |
| NPEO/NP/OPEO/OP in leather                   | BS EN ISO 18218-2:2019                                                                                                                   | Pass                  |
| Organotin Compounds                          | PD CEN ISO/TS 16179:2012<br>BS EN ISO 22744-1:2020                                                                                       | Pass                  |
| PCP, TeCP and TCP in leather                 | BS EN ISO 17070:2015                                                                                                                     | Pass                  |
| Pesticides                                   | IHM 016 GC-MS Analysis                                                                                                                   | Pass                  |
| pH                                           | BS EN ISO 4045:2018                                                                                                                      | Pass                  |
| SCCP (C10-C13)                               | BS EN ISO 18219-1:2021                                                                                                                   | Pass                  |
| Sulphated Total Ash                          | BS EN ISO 4047:1998                                                                                                                      | Fail                  |
| Total Digest Heavy Metals Screening          | CPSC-CH-E1001-08.3<br>CPSC-CH-E1002-08.3<br>BS EN ISO 17072-2:2019<br>ASTM E1613-12<br>BS EN 16711-1:2015<br>CPSC-CH-E1003-09.1          | Pass                  |

## TEST RESULTS

### Chromium VI - After Heat Ageing

†Heat Ageing followed by BS EN ISO 17075-2:2017, (80 ± 2)C and relative humidity less than 10% for 24 h, BS EN ISO 10195:2021 method A2

Detection limit: 3 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result | Sample B Result | Sample C Result |
|---------------------------------|-------|-------------|------------------------------|-----------------|-----------------|-----------------|
| Chromium (VI)                   | mg/kg | <3.0        | 10.2%                        | ND              | ND              | ND              |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass</b>     | <b>Pass</b>     | <b>Pass</b>     |

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample D Result | Sample E Result |
|---------------------------------|-------|-------------|------------------------------|-----------------|-----------------|
| Chromium (VI)                   | mg/kg | <3.0        | 10.2%                        | ND              | ND              |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass</b>     | <b>Pass</b>     |

# TEST RESULTS FROM EFS623100938

## Chromic Oxide Content

BS EN ISO 5398-4:2019

| Test Component                      | Unit  | Requirement                       | Uncertainty of Measurement $\pm$ | Sample A Result |
|-------------------------------------|-------|-----------------------------------|----------------------------------|-----------------|
| Chromic Oxide                       | mg/kg | Min 3.5%<br>(Moisture free basis) | -                                | 0.020%          |
| <b>Conclusion<br/>(Pass / Fail)</b> |       |                                   |                                  | <b>Pass</b>     |

## EN 71-3:2019 + A1:2021 (Including Chrome VI)

†EN71-3:2019 + A1:2021

Detection limit: Organic Tin Compounds: 0.05 mg/kg, Chromium (VI): 0.053 mg/kg, All others: 0.1 mg/kg

| Test Component                      | Unit  | Requirement | Uncertainty of Measurement $\pm$ | Sample A Result |
|-------------------------------------|-------|-------------|----------------------------------|-----------------|
| Boron (B)                           | mg/kg | <15,000     | 3.1%                             | 0.27            |
| Aluminium (Al)                      | mg/kg | <28,130     | 2.6%                             | 0.66            |
| Copper (Cu)                         | mg/kg | <7,700      | 1.1%                             | 0.12            |
| Manganese (Mn)                      | mg/kg | <15,000     | 2.2%                             | 0.29            |
| Zinc (Zn)                           | mg/kg | <46,000     | 2.0%                             | 0.79            |
| Lead (Pb)                           | mg/kg | <23         | 1.5%                             | ND              |
| Chromium (Cr)                       | mg/kg | <460        | 1.2%                             | ND              |
| Nickel (Ni)                         | mg/kg | <930        | 1.2%                             | ND              |
| Tin (Sn)                            | mg/kg | <180,000    | 18.4%                            | ND              |
| Cobalt (Co)                         | mg/kg | <130        | 1.1%                             | ND              |
| Cadmium (Cd)                        | mg/kg | <17         | 1.1%                             | ND              |
| Mercury (Hg)                        | mg/kg | <94         | 22.6%                            | ND              |
| Strontium (Sr)                      | mg/kg | <56,000     | 18.2%                            | 1.9             |
| Selenium (Se)                       | mg/kg | <460        | 1.3%                             | ND              |
| Chromium (VI)                       | mg/kg | <0.053      | 10.2%                            | ND              |
| Organic Tin Compounds               | mg/kg | <12         | -                                | ND              |
| Antimony (Sb)                       | mg/kg | <560        | 5.4%                             | ND              |
| Arsenic (As)                        | mg/kg | <47         | 2.9%                             | ND              |
| Barium (Ba)                         | mg/kg | <18,750     | 1.0%                             | 6.3             |
| <b>Conclusion<br/>(Pass / Fail)</b> |       |             |                                  | <b>Pass</b>     |

## Formaldehyde

BS EN ISO 17226-1:2021

Detection limit: 1.0 mg/kg

| Test Component                      | Unit  | Requirement                | Uncertainty of Measurement $\pm$ | Sample A Result |
|-------------------------------------|-------|----------------------------|----------------------------------|-----------------|
| Formaldehyde                        | mg/kg | Adults <75<br>Children <20 | 5.7%                             | 5.1             |
| <b>Conclusion<br/>(Pass / Fail)</b> |       |                            |                                  | <b>Pass</b>     |

### Fungicide Analysis

†BS EN ISO 13365-1:2020

Detection limit: 3-Iodo-2-propynylbutylcarbamate (IPBC): 60 mg/kg, All others: 2 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|-------------|------------------------------|-----------------|
| 2-Phenylphenol (OPP)            | mg/kg | <1000       | 10.6%                        | 270             |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

### Grease + Free Fatty Acids

BS EN ISO 4048:2018

| Test Component                  | Unit | Requirement                    | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|------|--------------------------------|------------------------------|-----------------|
| Grease Content (0% moisture)    | %    | ≤1.5%<br>(Moisture free basis) | -                            | 1.2%            |
| <b>Conclusion (Pass / Fail)</b> |      |                                |                              | <b>Pass</b>     |

### NPEO/OPEO (leather)

†BS EN ISO 18218-1:2015

Detection limit: 10 mg/kg

| Test Component                  | Unit  | Requirement                           | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|---------------------------------------|------------------------------|-----------------|
| Octylphenol ethoxylates (OPEO)  | mg/kg | <100 (each and as a sum of NPEO+OPEO) | 26.1%                        | ND              |
| Nonylphenol Ethoxylates (NPEO)  | mg/kg | <100 (each and as a sum of NPEO+OPEO) | 25.2%                        | ND              |
| <b>Conclusion (Pass / Fail)</b> |       |                                       |                              | <b>Pass</b>     |

# Organotin Compounds

†PD CEN ISO/TS 16179:2012, BS EN ISO 22744-1:2020

Detection limit: 0.05 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|-------------|------------------------------|-----------------|
| Monobutyltin (MBT)              | mg/kg | <1.0        | 12.7%                        | ND              |
| Dibutyltin (DBT)                | mg/kg | <1.0        | 14%                          | ND              |
| Tributyltin (TBT)               | mg/kg | <0.5        | 10.2%                        | ND              |
| Triphenyltin (TPHT)             | mg/kg | <0.5        | 12.8%                        | ND              |
| Tricyclohexyltin (TCyT)         | mg/kg | <1.0        | 9.3%                         | ND              |
| Trioctyltin (TOT)               | mg/kg | <1.0        | 20.2%                        | ND              |
| Trimethyltin (TMT)              | mg/kg | <1.0        | 12.6%                        | ND              |
| Tripropyltin (TPT)              | mg/kg | <1.0        | 10%                          | ND              |
| Diocetyl tin (DOT)              | mg/kg | <1.0        | 14%                          | ND              |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

# PCP, TeCP and TCP in leather

†BS EN ISO 17070:2015

Detection limit: 0.05 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|-------------|------------------------------|-----------------|
| Pentachlorophenol               | mg/kg | <1.0        | 16.8%                        | ND              |
| 2,3,5,6-Tetrachlorophenol       | mg/kg | <1.0        | 24.6%                        | ND              |
| 2,4,5-Trichlorophenol           | mg/kg | <1.0        | 20.5%                        | ND              |
| 3,4,5-Trichlorophenol           | mg/kg | <1.0        | 15.7%                        | ND              |
| 2,3,4,6-Tetrachlorophenol       | mg/kg | <1.0        | 21.2%                        | ND              |
| 2,3,4,5-Tetrachlorophenol       | mg/kg | <1.0        | 22.3%                        | ND              |
| 2,3,4-Trichlorophenol           | mg/kg | <1.0        | 22.7%                        | ND              |
| 2,3,5-Trichlorophenol           | mg/kg | <1.0        | 21.8%                        | ND              |
| 2,3,6-Trichlorophenol           | mg/kg | <1.0        | 20.2%                        | ND              |
| 2,4,6-Trichlorophenol           | mg/kg | <1.0        | 21%                          | ND              |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

# Shrinkage Temperature

BSEN ISO 3380:2015 (modified)

| Test Component                  | Unit | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|------|-------------|------------------------------|-----------------|
| Shrinkage Temperature           | ° C  | ≥ 70 °C     | -                            | 73              |
| <b>Conclusion (Pass / Fail)</b> |      |             |                              | <b>Pass</b>     |

# Pesticides

IHM 016 GC-MS Analysis

Detection limit: 0.5 mg/kg

| Test Component                      | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|-------------------------------------|-------|-------------|------------------------------|-----------------|
| Methoxychlor                        | mg/kg | <1.0        | -                            | ND              |
| Mirex                               | mg/kg | <1.0        | -                            | ND              |
| Aldrin                              | mg/kg | <1.0        | -                            | ND              |
| Dieldrin                            | mg/kg | <1.0        | -                            | ND              |
| Heptachlor                          | mg/kg | <1.0        | -                            | ND              |
| Heptachlor exo-epoxide              | mg/kg | <1.0        | -                            | ND              |
| alpha-Hexachlorocyclohexane (α-HCH) | mg/kg | <1.0        | -                            | ND              |
| 2,4-DDD                             | mg/kg | <1.0        | -                            | ND              |
| 4,4-DDD                             | mg/kg | <1.0        | -                            | ND              |
| 2,4-DDE                             | mg/kg | <1.0        | -                            | ND              |
| 4,4-DDE                             | mg/kg | <1.0        | -                            | ND              |
| 2,4-DDT                             | mg/kg | <1.0        | -                            | ND              |
| 4,4-DDT                             | mg/kg | <1.0        | -                            | ND              |
| Endosulfan I                        | mg/kg | <1.0        | -                            | ND              |
| Endosulfan II                       | mg/kg | <1.0        | -                            | ND              |
| <b>Conclusion (Pass / Fail)</b>     |       |             |                              | <b>Pass</b>     |

# SCCP (C10-C13)

BS EN ISO 18219-1:2021

Detection limit: 50 mg/kg

| Test Component                              | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------------------|-------|-------------|------------------------------|-----------------|
| Short Chain Chlorinated Paraffins (C10-C13) | mg/kg | <1000 (sum) | 18.6%                        | ND              |
| <b>Conclusion (Pass / Fail)</b>             |       |             |                              | <b>Pass</b>     |

# Total Digest Heavy Metals Screening

†CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3, BS EN ISO 17072-2:2019, ASTM E1613-12, BS EN 16711-1:2015, CPSC-CH-E1003-09.1

Detection limit: 0.1 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|-------------|------------------------------|-----------------|
| Arsenic (As)                    | mg/kg | <100        | 4.3%                         | ND              |
| Cadmium (Cd)                    | mg/kg | <40         | 3.6%                         | ND              |
| Lead (Pb)                       | mg/kg | <100        | 2.7%                         | ND              |
| Mercury (Hg)                    | mg/kg | <0.5        | -                            | ND              |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

# TEST RESULTS FROM EFS623100939

## Chromic Oxide Content BS EN ISO 5398-4:2019

| Test Component                      | Unit  | Requirement                       | Uncertainty of Measurement ± | Sample A Result |
|-------------------------------------|-------|-----------------------------------|------------------------------|-----------------|
| Chromic Oxide                       | mg/kg | Min 3.5%<br>(Moisture free basis) | -                            | 0.012%          |
| <b>Conclusion<br/>(Pass / Fail)</b> |       |                                   |                              | <b>Pass</b>     |

## EN 71-3:2019 + A1:2021 (Including Chrome VI)

### †EN71-3:2019 + A1:2021

Detection limit: Organic Tin Compounds: 0.05 mg/kg, Chromium (VI): 0.053 mg/kg, All others: 0.1 mg/kg

| Test Component                      | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|-------------------------------------|-------|-------------|------------------------------|-----------------|
| Boron (B)                           | mg/kg | <15,000     | 3.1%                         | 0.23            |
| Aluminium (Al)                      | mg/kg | <28,130     | 2.6%                         | 0.25            |
| Copper (Cu)                         | mg/kg | <7,700      | 1.1%                         | 0.12            |
| Manganese (Mn)                      | mg/kg | <15,000     | 2.2%                         | ND              |
| Zinc (Zn)                           | mg/kg | <46,000     | 2.0%                         | 2.5             |
| Lead (Pb)                           | mg/kg | <23         | 1.5%                         | ND              |
| Chromium (Cr)                       | mg/kg | <460        | 1.2%                         | 3.0             |
| Nickel (Ni)                         | mg/kg | <930        | 1.2%                         | ND              |
| Tin (Sn)                            | mg/kg | <180,000    | 18.4%                        | ND              |
| Cobalt (Co)                         | mg/kg | <130        | 1.1%                         | ND              |
| Cadmium (Cd)                        | mg/kg | <17         | 1.1%                         | ND              |
| Mercury (Hg)                        | mg/kg | <94         | 22.6%                        | ND              |
| Strontium (Sr)                      | mg/kg | <56,000     | 18.2%                        | 1.8             |
| Selenium (Se)                       | mg/kg | <460        | 1.3%                         | ND              |
| Chromium (VI)                       | mg/kg | <0.053      | 10.2%                        | ND              |
| Organic Tin Compounds               | mg/kg | <12         | -                            | ND              |
| Antimony (Sb)                       | mg/kg | <560        | 5.4%                         | ND              |
| Arsenic (As)                        | mg/kg | <47         | 2.9%                         | ND              |
| Barium (Ba)                         | mg/kg | <18,750     | 1.0%                         | 12              |
| <b>Conclusion<br/>(Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

## Formaldehyde

### BS EN ISO 17226-1:2021

Detection limit: 1.0 mg/kg

| Test Component                      | Unit  | Requirement                | Uncertainty of Measurement ± | Sample A Result |
|-------------------------------------|-------|----------------------------|------------------------------|-----------------|
| Formaldehyde                        | mg/kg | Adults <75<br>Children <20 | 5.7%                         | ND              |
| <b>Conclusion<br/>(Pass / Fail)</b> |       |                            |                              | <b>Pass</b>     |



### Fungicide Analysis

†BS EN ISO 13365-1:2020

Detection limit: 3-Iodo-2-propynylbutylcarbamate (IPBC): 60 mg/kg, All others: 2 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|-------------|------------------------------|-----------------|
| 2-Phenylphenol (OPP)            | mg/kg | <1000       | 10.6%                        | 550             |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

### Grease + Free Fatty Acids

BS EN ISO 4048:2018

| Test Component                  | Unit | Requirement                    | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|------|--------------------------------|------------------------------|-----------------|
| Grease Content (0% moisture)    | %    | ≤1.5%<br>(Moisture free basis) | -                            | 1.9%            |
| <b>Conclusion (Pass / Fail)</b> |      |                                |                              | <b>Fail</b>     |

### NPEO/OPEO (leather)

†BS EN ISO 18218-1:2015

Detection limit: 10 mg/kg

| Test Component                  | Unit  | Requirement                           | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|---------------------------------------|------------------------------|-----------------|
| Octylphenol ethoxylates (OPEO)  | mg/kg | <100 (each and as a sum of NPEO+OPEO) | 26.1%                        | ND              |
| Nonylphenol Ethoxylates (NPEO)  | mg/kg | <100 (each and as a sum of NPEO+OPEO) | 25.2%                        | ND              |
| <b>Conclusion (Pass / Fail)</b> |       |                                       |                              | <b>Pass</b>     |

### Shrinkage Temperature

BSEN ISO 3380:2015 (modified)

| Test Component                  | Unit | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|------|-------------|------------------------------|-----------------|
| Shrinkage Temperature           | °C   | ≥ 70 °C     | -                            | 76              |
| <b>Conclusion (Pass / Fail)</b> |      |             |                              | <b>Pass</b>     |

# Organotin Compounds

†PD CEN ISO/TS 16179:2012, BS EN ISO 22744-1:2020

Detection limit: 0.05 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|-------------|------------------------------|-----------------|
| Monobutyltin (MBT)              | mg/kg | <1.0        | 12.7%                        | ND              |
| Dibutyltin (DBT)                | mg/kg | <1.0        | 14%                          | ND              |
| Tributyltin (TBT)               | mg/kg | <0.5        | 10.2%                        | ND              |
| Triphenyltin (TPHT)             | mg/kg | <0.5        | 12.8%                        | ND              |
| Tricyclohexyltin (TCyT)         | mg/kg | <1.0        | 9.3%                         | ND              |
| Trioctyltin (TOT)               | mg/kg | <1.0        | 20.2%                        | ND              |
| Trimethyltin (TMT)              | mg/kg | <1.0        | 12.6%                        | ND              |
| Tripropyltin (TPT)              | mg/kg | <1.0        | 10%                          | ND              |
| Diocetyltn (DOT)                | mg/kg | <1.0        | 14%                          | 0.080           |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

# PCP, TeCP and TCP in leather

†BS EN ISO 17070:2015

Detection limit: 0.05 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|-------------|------------------------------|-----------------|
| Pentachlorophenol               | mg/kg | <1.0        | 16.8%                        | ND              |
| 2,3,5,6-Tetrachlorophenol       | mg/kg | <1.0        | 24.6%                        | ND              |
| 2,4,5-Trichlorophenol           | mg/kg | <1.0        | 20.5%                        | ND              |
| 3,4,5-Trichlorophenol           | mg/kg | <1.0        | 15.7%                        | ND              |
| 2,3,4,6-Tetrachlorophenol       | mg/kg | <1.0        | 21.2%                        | ND              |
| 2,3,4,5-Tetrachlorophenol       | mg/kg | <1.0        | 22.3%                        | ND              |
| 2,3,4-Trichlorophenol           | mg/kg | <1.0        | 22.7%                        | ND              |
| 2,3,5-Trichlorophenol           | mg/kg | <1.0        | 21.8%                        | ND              |
| 2,3,6-Trichlorophenol           | mg/kg | <1.0        | 20.2%                        | ND              |
| 2,4,6-Trichlorophenol           | mg/kg | <1.0        | 21%                          | ND              |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

# Pesticides

IHM 016 GC-MS Analysis

Detection limit: 0.5 mg/kg

| Test Component                      | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|-------------------------------------|-------|-------------|------------------------------|-----------------|
| Methoxychlor                        | mg/kg | <1.0        | -                            | ND              |
| Mirex                               | mg/kg | <1.0        | -                            | ND              |
| Aldrin                              | mg/kg | <1.0        | -                            | ND              |
| Dieldrin                            | mg/kg | <1.0        | -                            | ND              |
| Heptachlor                          | mg/kg | <1.0        | -                            | ND              |
| Heptachlor exo-epoxide              | mg/kg | <1.0        | -                            | ND              |
| alpha-Hexachlorocyclohexane (α-HCH) | mg/kg | <1.0        | -                            | ND              |
| 2,4-DDD                             | mg/kg | <1.0        | -                            | ND              |
| 4,4-DDD                             | mg/kg | <1.0        | -                            | ND              |
| 2,4-DDE                             | mg/kg | <1.0        | -                            | ND              |
| 4,4-DDE                             | mg/kg | <1.0        | -                            | ND              |
| 2,4-DDT                             | mg/kg | <1.0        | -                            | ND              |
| 4,4-DDT                             | mg/kg | <1.0        | -                            | ND              |
| Endosulfan I                        | mg/kg | <1.0        | -                            | ND              |
| Endosulfan II                       | mg/kg | <1.0        | -                            | ND              |
| <b>Conclusion (Pass / Fail)</b>     |       |             |                              | <b>Pass</b>     |

# SCCP (C10-C13)

BS EN ISO 18219-1:2021

Detection limit: 50 mg/kg

| Test Component                              | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------------------|-------|-------------|------------------------------|-----------------|
| Short Chain Chlorinated Paraffins (C10-C13) | mg/kg | <1000 (sum) | 18.6%                        | ND              |
| <b>Conclusion (Pass / Fail)</b>             |       |             |                              | <b>Pass</b>     |

# Total Digest Heavy Metals Screening

†CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3, BS EN ISO 17072-2:2019, ASTM E1613-12, BS EN 16711-1:2015, CPSC-CH-E1003-09.1

Detection limit: 0.1 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|-------------|------------------------------|-----------------|
| Arsenic (As)                    | mg/kg | <100        | 4.3%                         | ND              |
| Cadmium (Cd)                    | mg/kg | <40         | 3.6%                         | ND              |
| Lead (Pb)                       | mg/kg | <100        | 2.7%                         | ND              |
| Mercury (Hg)                    | mg/kg | <0.5        | -                            | ND              |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

**TEST RESULTS FROM EFS623100941**

**Chromium VI**

†BS EN ISO 17075-2:2017

Detection limit: 3 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|-------------|------------------------------|-----------------|
| Chromium (VI)                   | mg/kg | <3.0        | 10.2%                        | ND              |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

**Chromic Oxide Content**

BS EN ISO 5398-4:2019

| Test Component                  | Unit  | Requirement                    | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|--------------------------------|------------------------------|-----------------|
| Chromic Oxide                   | mg/kg | ≤1.5%<br>(Moisture free basis) | -                            | <b>6.5%</b>     |
| <b>Conclusion (Pass / Fail)</b> |       |                                |                              | <b>Fail</b>     |

**Shrinkage**

3 minute boil test at 100 °C

| Test Component                  | Unit | Requirement                                     | Uncertainty of Measurement ± | Sample A Result                         |
|---------------------------------|------|-------------------------------------------------|------------------------------|-----------------------------------------|
| Shrinkage                       | ° C  | Maximum 3 % shrinkage after 3 minutes at 100 °C | -                            | 0 % shrinkage after 3 minutes at 100 °C |
| <b>Conclusion (Pass / Fail)</b> |      |                                                 |                              | <b>Pass</b>                             |

EN 71-3:2019 + A1:2021 (Including Chrome VI)

†EN71-3:2019 + A1:2021

Detection limit: Organic Tin Compounds: 0.05 mg/kg, Chromium (VI): 0.053 mg/kg, All others: 0.1 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|-------------|------------------------------|-----------------|
| Boron (B)                       | mg/kg | <15,000     | 3.1%                         | 0.28            |
| Aluminium (Al)                  | mg/kg | <28,130     | 2.6%                         | 4.5             |
| Copper (Cu)                     | mg/kg | <7,700      | 1.1%                         | 0.42            |
| Manganese (Mn)                  | mg/kg | <15,000     | 2.2%                         | 1.2             |
| Zinc (Zn)                       | mg/kg | <46,000     | 2.0%                         | 0.78            |
| Lead (Pb)                       | mg/kg | <23         | 1.5%                         | ND              |
| Chromium (Cr)                   | mg/kg | <460        | 1.2%                         | ND              |
| Nickel (Ni)                     | mg/kg | <930        | 1.2%                         | ND              |
| Tin (Sn)                        | mg/kg | <180,000    | 18.4%                        | ND              |
| Cobalt (Co)                     | mg/kg | <130        | 1.1%                         | ND              |
| Cadmium (Cd)                    | mg/kg | <17         | 1.1%                         | ND              |
| Mercury (Hg)                    | mg/kg | <94         | 22.6%                        | ND              |
| Strontium (Sr)                  | mg/kg | <56,000     | 18.2%                        | 2.0             |
| Selenium (Se)                   | mg/kg | <460        | 1.3%                         | ND              |
| Chromium (VI)                   | mg/kg | <0.053      | 10.2%                        | ND              |
| Organic Tin Compounds           | mg/kg | <12         | -                            | ND              |
| Antimony (Sb)                   | mg/kg | <560        | 5.4%                         | ND              |
| Arsenic (As)                    | mg/kg | <47         | 2.9%                         | ND              |
| Barium (Ba)                     | mg/kg | <18,750     | 1.0%                         | 7.7             |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

Formaldehyde

BS EN ISO 17226-1:2021

Detection limit: 1 mg/kg

| Test Component                  | Unit  | Requirement                | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|----------------------------|------------------------------|-----------------|
| Formaldehyde                    | mg/kg | Adults <75<br>Children <20 | 5.7%                         | ND              |
| <b>Conclusion (Pass / Fail)</b> |       |                            |                              | <b>Pass</b>     |

Fungicide Analysis

†BS EN ISO 13365-1:2020

Detection limit: 2 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|-------------|------------------------------|-----------------|
| 2-Phenylphenol (OPP)            | mg/kg | <1000       | 10.6%                        | 680             |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

# Grease + Free Fatty Acids

BS EN ISO 4048:2018

| Test Component                      | Unit | Requirement                    | Uncertainty of Measurement ± | Sample A Result |
|-------------------------------------|------|--------------------------------|------------------------------|-----------------|
| Grease Content (0% moisture)        | %    | ≤1.5%<br>(Moisture free basis) | -                            | 2.1             |
| <b>Conclusion<br/>(Pass / Fail)</b> |      |                                |                              | <b>Fail</b>     |

# NPEO/NP/OPEO/OP in leather

BS EN ISO 18218-2:2019

Detection limit: 10 mg/kg

| Test Component                      | Unit  | Requirement                           | Uncertainty of Measurement ± | Sample A Result |
|-------------------------------------|-------|---------------------------------------|------------------------------|-----------------|
| 4-Nonylphenol, branched (NP)        | mg/kg | <100 (each and as a sum of NP+OP)     | -                            | ND              |
| 4-Tert-octylphenol (OP)             | mg/kg | <100 (each and as a sum of NP+OP)     | -                            | ND              |
| Nonylphenol ethoxylates (NPEO)      | mg/kg | <100 (each and as a sum of NPEO+OPEO) | -                            | ND              |
| Octylphenol ethoxylates (OPEO)      | mg/kg | <100 (each and as a sum of NPEO+OPEO) | -                            | ND              |
| <b>Conclusion<br/>(Pass / Fail)</b> |       |                                       |                              | <b>Pass</b>     |

# Organotin Compounds

†PD CEN ISO/TS 16179:2012, BS EN ISO 22744-1:2020

Detection limit: 0.05 mg/kg

| Test Component                      | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|-------------------------------------|-------|-------------|------------------------------|-----------------|
| Monobutyltin (MBT)                  | mg/kg | <1.0        | 12.7%                        | ND              |
| Dibutyltin (DBT)                    | mg/kg | <1.0        | 14%                          | ND              |
| Tributyltin (TBT)                   | mg/kg | <0.5        | 10.2%                        | ND              |
| Triphenyltin (TPHT)                 | mg/kg | <0.5        | 12.8%                        | ND              |
| Tricyclohexyltin (TCyT)             | mg/kg | <1.0        | 9.3%                         | ND              |
| Trioctyltin (TOT)                   | mg/kg | <1.0        | 20.2%                        | ND              |
| Trimethyltin (TMT)                  | mg/kg | <1.0        | 12.6%                        | ND              |
| Tripropyltin (TPT)                  | mg/kg | <1.0        | 10%                          | ND              |
| Diocetyl tin (DOT)                  | mg/kg | <1.0        | 14%                          | ND              |
| <b>Conclusion<br/>(Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

**PCP, TeCP and TCP in leather**

†BS EN ISO 17070:2015

Detection limit: 0.05 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|-------------|------------------------------|-----------------|
| Pentachlorophenol               | mg/kg | <1.0        | 16.8%                        | ND              |
| 2,3,5,6-Tetrachlorophenol       | mg/kg | <1.0        | 24.6%                        | ND              |
| 2,4,5-Trichlorophenol           | mg/kg | <1.0        | 20.5%                        | ND              |
| 3,4,5-Trichlorophenol           | mg/kg | <1.0        | 15.7%                        | ND              |
| 2,3,4,6-Tetrachlorophenol       | mg/kg | <1.0        | 21.2%                        | ND              |
| 2,3,4,5-Tetrachlorophenol       | mg/kg | <1.0        | 22.3%                        | ND              |
| 2,3,4-Trichlorophenol           | mg/kg | <1.0        | 22.7%                        | ND              |
| 2,3,5-Trichlorophenol           | mg/kg | <1.0        | 21.8%                        | ND              |
| 2,3,6-Trichlorophenol           | mg/kg | <1.0        | 20.2%                        | ND              |
| 2,4,6-Trichlorophenol           | mg/kg | <1.0        | 21%                          | ND              |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

**Pesticides**

IHM 016 GC-MS Analysis

Detection limit: 0.5 mg/kg

| Test Component                      | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|-------------------------------------|-------|-------------|------------------------------|-----------------|
| Methoxychlor                        | mg/kg | <1.0        | -                            | ND              |
| Mirex                               | mg/kg | <1.0        | -                            | ND              |
| Aldrin                              | mg/kg | <1.0        | -                            | ND              |
| Dieldrin                            | mg/kg | <1.0        | -                            | ND              |
| Heptachlor                          | mg/kg | <1.0        | -                            | ND              |
| Heptachlor exo-epoxide              | mg/kg | <1.0        | -                            | ND              |
| alpha-Hexachlorocyclohexane (α-HCH) | mg/kg | <1.0        | -                            | ND              |
| 2,4-DDD                             | mg/kg | <1.0        | -                            | ND              |
| 4,4-DDD                             | mg/kg | <1.0        | -                            | ND              |
| 2,4-DDE                             | mg/kg | <1.0        | -                            | ND              |
| 4,4-DDE                             | mg/kg | <1.0        | -                            | ND              |
| 2,4-DDT                             | mg/kg | <1.0        | -                            | ND              |
| 4,4-DDT                             | mg/kg | <1.0        | -                            | ND              |
| Endosulfan I                        | mg/kg | <1.0        | -                            | ND              |
| Endosulfan II                       | mg/kg | <1.0        | -                            | ND              |
| <b>Conclusion (Pass / Fail)</b>     |       |             |                              | <b>Pass</b>     |

**pH**

†BS EN ISO 4045:2018

| Test Component                  | Unit | Requirement                                                                                    | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|------|------------------------------------------------------------------------------------------------|------------------------------|-----------------|
| pH                              | -    | Minimum 3.2<br>(Minimum 3.5 for upholstery leather)<br>(Maximum 4.5 for chrome tanned leather) | ±0.24                        | 3.35            |
| delta pH                        | -    | <0.7                                                                                           | ±0.24                        | 0.25            |
| <b>Conclusion (Pass / Fail)</b> |      |                                                                                                |                              | <b>Pass</b>     |

**SCCP (C10-C13)**

**BS EN ISO 18219-1:2021**

**Detection limit: 50 mg/kg**

| Test Component                              | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------------------|-------|-------------|------------------------------|-----------------|
| Short Chain Chlorinated Paraffins (C10-C13) | mg/kg | <1000 (sum) | 18.6%                        | ND              |
| <b>Conclusion (Pass / Fail)</b>             |       |             |                              | <b>Pass</b>     |

**Sulphated Total Ash**

**BS EN ISO 4047:1998**

| Test Component                  | Unit | Requirement                      | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|------|----------------------------------|------------------------------|-----------------|
| Sulphated Total Ash             | %    | 7 - 11%<br>(Moisture free basis) | -                            | 12 %            |
| <b>Conclusion (Pass / Fail)</b> |      |                                  |                              | <b>Fail</b>     |



**Total Digest Heavy Metals Screening**

†CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3, BS EN ISO 17072-2:2019, ASTM E1613-12, BS EN 16711-1:2015, CPSC-CH-E1003-09.1

Detection limit: 0.1 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|-------------|------------------------------|-----------------|
| Arsenic (As)                    | mg/kg | <100        | 4.3%                         | ND              |
| Cadmium (Cd)                    | mg/kg | <40         | 3.6%                         | ND              |
| Lead (Pb)                       | mg/kg | <100        | 2.7%                         | ND              |
| Mercury (Hg)                    | mg/kg | <0.5        | -                            | ND              |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

# TEST RESULTS FROM EFS623100945

## Chromium VI

†BS EN ISO 17075-2:2017

Detection limit: 3 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|-------------|------------------------------|-----------------|
| Chromium (VI)                   | mg/kg | <3.0        | 10.2%                        | ND              |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

## Chromic Oxide Content

BS EN ISO 5398-4:2019

| Test Component                  | Unit  | Requirement                    | Uncertainty of Measurement ± | Sample A Result            |
|---------------------------------|-------|--------------------------------|------------------------------|----------------------------|
| Chromic Oxide                   | mg/kg | Min 3.5% (Moisture free basis) | -                            | 6.5% (Moisture free basis) |
| <b>Conclusion (Pass / Fail)</b> |       |                                |                              | <b>Fail</b>                |

## EN 71-3:2019 + A1:2021 (Including Chrome VI)

†EN71-3:2019 + A1:2021

Detection limit: Organic Tin Compounds: 0.05 mg/kg, Chromium (VI): 0.053 mg/kg, All others: 0.1 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result           |
|---------------------------------|-------|-------------|------------------------------|---------------------------|
| Boron (B)                       | mg/kg | <15,000     | 3.1%                         | 0.23                      |
| Aluminium (Al)                  | mg/kg | <28,130     | 2.6%                         | 5.5                       |
| Copper (Cu)                     | mg/kg | <7,700      | 1.1%                         | 0.17                      |
| Manganese (Mn)                  | mg/kg | <15,000     | 2.2%                         | 0.54                      |
| Zinc (Zn)                       | mg/kg | <46,000     | 2.0%                         | 0.56                      |
| Lead (Pb)                       | mg/kg | <23         | 1.5%                         | ND                        |
| Chromium (Cr)‡                  | mg/kg | <460        | 1.2%                         | 610                       |
| Nickel (Ni)                     | mg/kg | <930        | 1.2%                         | ND                        |
| Tin (Sn)                        | mg/kg | <180,000    | 18.4%                        | ND                        |
| Cobalt (Co)                     | mg/kg | <130        | 1.1%                         | ND                        |
| Cadmium (Cd)                    | mg/kg | <17         | 1.1%                         | ND                        |
| Mercury (Hg)                    | mg/kg | <94         | 22.6%                        | ND                        |
| Strontium (Sr)                  | mg/kg | <56,000     | 18.2%                        | 2.1                       |
| Selenium (Se)                   | mg/kg | <460        | 1.3%                         | ND                        |
| Chromium (VI)                   | mg/kg | <0.053      | 10.2%                        | ND                        |
| Organic Tin Compounds           | mg/kg | <12         | -                            | ND                        |
| Antimony (Sb)                   | mg/kg | <560        | 5.4%                         | ND                        |
| Arsenic (As)                    | mg/kg | <47         | 2.9%                         | ND                        |
| Barium (Ba)                     | mg/kg | <18,750     | 1.0%                         | 13                        |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass (See Comment)</b> |

‡ It should be noted that chrome tanned leather will not pass EN71-3 for chrome III content. This is accepted and leather should not be failed for this reason.

### Formaldehyde

BS EN ISO 17226-1:2021

Detection limit: 1 mg/kg

| Test Component                      | Unit  | Requirement                | Uncertainty of Measurement ± | Sample A Result |
|-------------------------------------|-------|----------------------------|------------------------------|-----------------|
| Formaldehyde                        | mg/kg | Adults <75<br>Children <20 | 5.7%                         | ND              |
| <b>Conclusion<br/>(Pass / Fail)</b> |       |                            |                              | <b>Pass</b>     |

### Fungicide Analysis

†BS EN ISO 13365-1:2020

Detection limit: 3-Iodo-2-propynylbutylcarbamate (IPBC): 60 mg/kg, All others: 2 mg/kg

| Test Component                      | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|-------------------------------------|-------|-------------|------------------------------|-----------------|
| 2-Phenylphenol (OPP)                | mg/kg | <1000       | 10.6%                        | 420             |
| <b>Conclusion<br/>(Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

### Grease + Free Fatty Acids

BS EN ISO 4048:2018

| Test Component                      | Unit | Requirement                    | Uncertainty of Measurement ± | Sample A Result |
|-------------------------------------|------|--------------------------------|------------------------------|-----------------|
| Grease Content (0% moisture)        | %    | ≤1.5%<br>(Moisture free basis) | -                            | 1.6 %           |
| <b>Conclusion<br/>(Pass / Fail)</b> |      |                                |                              | <b>Fail</b>     |

#### NPEO/NP/OPEO/OP in leather

BS EN ISO 18218-2:2019

Detection limit: 10 mg/kg

| Test Component                  | Unit  | Requirement                           | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|---------------------------------------|------------------------------|-----------------|
| 4-Nonylphenol, branched (NP)    | mg/kg | <100 (each and as a sum of NP+OP)     | -                            | ND              |
| 4-Tert-octylphenol (OP)         | mg/kg | <100 (each and as a sum of NP+OP)     | -                            | ND              |
| Nonylphenol ethoxylates (NPEO)  | mg/kg | <100 (each and as a sum of NPEO+OPEO) | -                            | ND              |
| Octylphenol ethoxylates (OPEO)  | mg/kg | <100 (each and as a sum of NPEO+OPEO) | -                            | ND              |
| <b>Conclusion (Pass / Fail)</b> |       |                                       |                              | <b>Pass</b>     |

#### Organotin Compounds

†PD CEN ISO/TS 16179:2012, BS EN ISO 22744-1:2020

Detection limit: 0.05 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|-------------|------------------------------|-----------------|
| Monobutyltin (MBT)              | mg/kg | <1.0        | 12.7%                        | ND              |
| Dibutyltin (DBT)                | mg/kg | <1.0        | 14%                          | ND              |
| Tributyltin (TBT)               | mg/kg | <0.5        | 10.2%                        | ND              |
| Triphenyltin (TPHT)             | mg/kg | <0.5        | 12.8%                        | ND              |
| Tricyclohexyltin (TCyT)         | mg/kg | <1.0        | 9.3%                         | ND              |
| Trioctyltin (TOT)               | mg/kg | <1.0        | 20.2%                        | ND              |
| Trimethyltin (TMT)              | mg/kg | <1.0        | 12.6%                        | ND              |
| Tripropyltin (TPT)              | mg/kg | <1.0        | 10%                          | ND              |
| Diocetyl tin (DOT)              | mg/kg | <1.0        | 14%                          | ND              |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

# PCP, TeCP and TCP in leather

†BS EN ISO 17070:2015

Detection limit: 0.05 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|-------------|------------------------------|-----------------|
| Pentachlorophenol               | mg/kg | <1.0        | 16.8%                        | ND              |
| 2,3,5,6-Tetrachlorophenol       | mg/kg | <1.0        | 24.6%                        | ND              |
| 2,4,5-Trichlorophenol           | mg/kg | <1.0        | 20.5%                        | ND              |
| 3,4,5-Trichlorophenol           | mg/kg | <1.0        | 15.7%                        | ND              |
| 2,3,4,6-Tetrachlorophenol       | mg/kg | <1.0        | 21.2%                        | ND              |
| 2,3,4,5-Tetrachlorophenol       | mg/kg | <1.0        | 22.3%                        | ND              |
| 2,3,4-Trichlorophenol           | mg/kg | <1.0        | 22.7%                        | ND              |
| 2,3,5-Trichlorophenol           | mg/kg | <1.0        | 21.8%                        | ND              |
| 2,3,6-Trichlorophenol           | mg/kg | <1.0        | 20.2%                        | ND              |
| 2,4,6-Trichlorophenol           | mg/kg | <1.0        | 21%                          | ND              |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

# Pesticides

IHM 016 GC-MS Analysis

Detection limit: 0.5 mg/kg

| Test Component                      | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|-------------------------------------|-------|-------------|------------------------------|-----------------|
| Methoxychlor                        | mg/kg | <1.0        | -                            | ND              |
| Mirex                               | mg/kg | <1.0        | -                            | ND              |
| Aldrin                              | mg/kg | <1.0        | -                            | ND              |
| Dieldrin                            | mg/kg | <1.0        | -                            | ND              |
| Heptachlor                          | mg/kg | <1.0        | -                            | ND              |
| Heptachlor exo-epoxide              | mg/kg | <1.0        | -                            | ND              |
| alpha-Hexachlorocyclohexane (α-HCH) | mg/kg | <1.0        | -                            | ND              |
| 2,4-DDD                             | mg/kg | <1.0        | -                            | ND              |
| 4,4-DDD                             | mg/kg | <1.0        | -                            | ND              |
| 2,4-DDE                             | mg/kg | <1.0        | -                            | ND              |
| 4,4-DDE                             | mg/kg | <1.0        | -                            | ND              |
| 2,4-DDT                             | mg/kg | <1.0        | -                            | ND              |
| 4,4-DDT                             | mg/kg | <1.0        | -                            | ND              |
| Endosulfan I                        | mg/kg | <1.0        | -                            | ND              |
| Endosulfan II                       | mg/kg | <1.0        | -                            | ND              |
| <b>Conclusion (Pass / Fail)</b>     |       |             |                              | <b>Pass</b>     |

**pH**

†BS EN ISO 4045:2018

| Test Component                  | Unit | Requirement                                                                                    | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|------|------------------------------------------------------------------------------------------------|------------------------------|-----------------|
| pH                              | -    | Minimum 3.2<br>(Minimum 3.5 for upholstery leather)<br>(Maximum 4.5 for chrome tanned leather) | ±0.24                        | 3.50            |
| delta pH                        | -    | <0.7                                                                                           | ±0.24                        | 0.25            |
| <b>Conclusion (Pass / Fail)</b> |      |                                                                                                |                              | <b>Pass</b>     |

**SCCP (C10-C13)**

**BS EN ISO 18219-1:2021**

**Detection limit: 50 mg/kg**

| Test Component                              | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------------------|-------|-------------|------------------------------|-----------------|
| Short Chain Chlorinated Paraffins (C10-C13) | mg/kg | <1000 (sum) | 18.6%                        | ND              |
| <b>Conclusion (Pass / Fail)</b>             |       |             |                              | <b>Pass</b>     |

**Sulphated Total Ash**

**BS EN ISO 4047:1998**

| Test Component                  | Unit | Requirement                      | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|------|----------------------------------|------------------------------|-----------------|
| Sulphated Total Ash             | %    | 7 - 11%<br>(Moisture free basis) | -                            | 9.4 %           |
| <b>Conclusion (Pass / Fail)</b> |      |                                  |                              | <b>Pass</b>     |

### Total Digest Heavy Metals Screening

†CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3, BS EN ISO 17072-2:2019, ASTM E1613-12, BS EN 16711-1:2015, CPSC-CH-E1003-09.1

Detection limit: 0.1 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|-------------|------------------------------|-----------------|
| Arsenic (As)                    | mg/kg | <100        | 4.3%                         | ND              |
| Cadmium (Cd)                    | mg/kg | <40         | 3.6%                         | ND              |
| Lead (Pb)                       | mg/kg | <100        | 2.7%                         | ND              |
| Mercury (Hg)                    | mg/kg | <0.5        | -                            | ND              |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

### Shrinkage

3 minute boil test at 100 °C

| Test Component                  | Unit     | Requirement                                     | Uncertainty of Measurement ± | Sample A Result                         |
|---------------------------------|----------|-------------------------------------------------|------------------------------|-----------------------------------------|
| Shrinkage                       | ° C      | Maximum 3 % shrinkage after 3 minutes at 100 °C | -                            | 0 % shrinkage after 3 minutes at 100 °C |
| <b>Conclusion (Pass / Fail)</b> | <b>-</b> |                                                 |                              | <b>Pass</b>                             |

# TEST RESULTS FROM EFS623100949

## Chromium VI

†BS EN ISO 17075-2:2017

Detection limit: 3 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|-------------|------------------------------|-----------------|
| Chromium (VI)                   | mg/kg | <3.0        | 10.2%                        | ND              |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

## Chromic Oxide Content

BS EN ISO 5398-4:2019

| Test Component                  | Unit  | Requirement                    | Uncertainty of Measurement ± | Sample A Result            |
|---------------------------------|-------|--------------------------------|------------------------------|----------------------------|
| Chromic Oxide                   | mg/kg | Min 3.5% (Moisture free basis) | -                            | 6.0% (Moisture free basis) |
| <b>Conclusion (Pass / Fail)</b> |       |                                |                              | <b>Pass</b>                |

## EN 71-3:2019 + A1:2021 (Including Chrome VI)

†EN71-3:2019 + A1:2021

Detection limit: Organic Tin Compounds: 0.05 mg/kg, Chromium (VI): 0.053 mg/kg, All others: 0.1 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result           |
|---------------------------------|-------|-------------|------------------------------|---------------------------|
| Boron (B)                       | mg/kg | <15,000     | 3.1%                         | 0.30                      |
| Aluminium (Al)                  | mg/kg | <28,130     | 2.6%                         | 3.2                       |
| Copper (Cu)                     | mg/kg | <7,700      | 1.1%                         | 4.9                       |
| Manganese (Mn)                  | mg/kg | <15,000     | 2.2%                         | 1.0                       |
| Zinc (Zn)                       | mg/kg | <46,000     | 2.0%                         | 2.8                       |
| Lead (Pb)                       | mg/kg | <23         | 1.5%                         | ND                        |
| Chromium (Cr)‡                  | mg/kg | <460        | 1.2%                         | 500                       |
| Nickel (Ni)                     | mg/kg | <930        | 1.2%                         | 0.23                      |
| Tin (Sn)                        | mg/kg | <180,000    | 18.4%                        | 0.35                      |
| Cobalt (Co)                     | mg/kg | <130        | 1.1%                         | ND                        |
| Cadmium (Cd)                    | mg/kg | <17         | 1.1%                         | ND                        |
| Mercury (Hg)                    | mg/kg | <94         | 22.6%                        | ND                        |
| Strontium (Sr)                  | mg/kg | <56,000     | 18.2%                        | 2.3                       |
| Selenium (Se)                   | mg/kg | <460        | 1.3%                         | ND                        |
| Chromium (VI)                   | mg/kg | <0.053      | 10.2%                        | ND                        |
| Organic Tin Compounds           | mg/kg | <12         | -                            | ND                        |
| Antimony (Sb)                   | mg/kg | <560        | 5.4%                         | ND                        |
| Arsenic (As)                    | mg/kg | <47         | 2.9%                         | ND                        |
| Barium (Ba)                     | mg/kg | <18,750     | 1.0%                         | 12                        |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass (See Comment)</b> |

‡ It should be noted that chrome tanned leather will not pass EN71-3 for chrome III content. This is accepted and leather should not be failed for this reason.



### Formaldehyde

BS EN ISO 17226-1:2021

Detection limit: 1.0 mg/kg

| Test Component                  | Unit  | Requirement                        | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|------------------------------------|------------------------------|-----------------|
| Formaldehyde                    | mg/kg | Infants/Adults <75<br>Children <20 | 5.7%                         | ND              |
| <b>Conclusion (Pass / Fail)</b> |       |                                    |                              | <b>Pass</b>     |

### Fungicide Analysis

†BS EN ISO 13365-1:2020

Detection limit: 3-Iodo-2-propynylbutylcarbamate (IPBC): 60 mg/kg, All others: 2 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|-------------|------------------------------|-----------------|
| 2-Phenylphenol (OPP)            | mg/kg | <1000       | 10.6%                        | 520             |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

### Grease + Free Fatty Acids

BS EN ISO 4048:2018

| Test Component                  | Unit | Requirement                    | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|------|--------------------------------|------------------------------|-----------------|
| Grease Content (0% moisture)    | %    | ≤1.5%<br>(Moisture free basis) | -                            | 1.2%            |
| <b>Conclusion (Pass / Fail)</b> |      |                                |                              | <b>Pass</b>     |

# NPEO/NP/OPEO/OP in leather

BS EN ISO 18218-2:2019

Detection limit: 10 mg/kg

| Test Component                  | Unit  | Requirement                           | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|---------------------------------------|------------------------------|-----------------|
| 4-Nonylphenol, branched (NP)    | mg/kg | <100 (each and as a sum of NP+OP)     | -                            | ND              |
| 4-Tert-octylphenol (OP)         | mg/kg | <100 (each and as a sum of NP+OP)     | -                            | ND              |
| Nonylphenol ethoxylates (NPEO)  | mg/kg | <100 (each and as a sum of NPEO+OPEO) | -                            | ND              |
| Octylphenol ethoxylates (OPEO)  | mg/kg | <100 (each and as a sum of NPEO+OPEO) | -                            | ND              |
| <b>Conclusion (Pass / Fail)</b> |       |                                       |                              | <b>Pass</b>     |

# Organotin Compounds

†PD CEN ISO/TS 16179:2012, BS EN ISO 22744-1:2020

Detection limit: 0.05 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|-------------|------------------------------|-----------------|
| Monobutyltin (MBT)              | mg/kg | <1.0        | 12.7%                        | ND              |
| Dibutyltin (DBT)                | mg/kg | <1.0        | 14%                          | ND              |
| Tributyltin (TBT)               | mg/kg | <0.5        | 10.2%                        | ND              |
| Triphenyltin (TPHT)             | mg/kg | <0.5        | 12.8%                        | ND              |
| Tricyclohexyltin (TCyT)         | mg/kg | <1.0        | 9.3%                         | ND              |
| Trioctyltin (TOT)               | mg/kg | <1.0        | 20.2%                        | ND              |
| Trimethyltin (TMT)              | mg/kg | <1.0        | 12.6%                        | ND              |
| Tripropyltin (TPT)              | mg/kg | <1.0        | 10%                          | ND              |
| Diocetyl tin (DOT)              | mg/kg | <1.0        | 14%                          | ND              |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

# PCP, TeCP and TCP in leather

†BS EN ISO 17070:2015

Detection limit: 0.05 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|-------------|------------------------------|-----------------|
| Pentachlorophenol               | mg/kg | <1.0        | 16.8%                        | ND              |
| 2,3,5,6-Tetrachlorophenol       | mg/kg | <1.0        | 24.6%                        | ND              |
| 2,4,5-Trichlorophenol           | mg/kg | <1.0        | 20.5%                        | ND              |
| 3,4,5-Trichlorophenol           | mg/kg | <1.0        | 15.7%                        | ND              |
| 2,3,4,6-Tetrachlorophenol       | mg/kg | <1.0        | 21.2%                        | ND              |
| 2,3,4,5-Tetrachlorophenol       | mg/kg | <1.0        | 22.3%                        | ND              |
| 2,3,4-Trichlorophenol           | mg/kg | <1.0        | 22.7%                        | ND              |
| 2,3,5-Trichlorophenol           | mg/kg | <1.0        | 21.8%                        | ND              |
| 2,3,6-Trichlorophenol           | mg/kg | <1.0        | 20.2%                        | ND              |
| 2,4,6-Trichlorophenol           | mg/kg | <1.0        | 21%                          | ND              |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

## Pesticides

IHM 016 GC-MS Analysis

Detection limit: 0.5 mg/kg

| Test Component                      | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|-------------------------------------|-------|-------------|------------------------------|-----------------|
| Methoxychlor                        | mg/kg | <1.0        | -                            | ND              |
| Mirex                               | mg/kg | <1.0        | -                            | ND              |
| Aldrin                              | mg/kg | <1.0        | -                            | ND              |
| Dieldrin                            | mg/kg | <1.0        | -                            | ND              |
| Heptachlor                          | mg/kg | <1.0        | -                            | ND              |
| Heptachlor exo-epoxide              | mg/kg | <1.0        | -                            | ND              |
| alpha-Hexachlorocyclohexane (α-HCH) | mg/kg | <1.0        | -                            | ND              |
| 2,4-DDD                             | mg/kg | <1.0        | -                            | ND              |
| 4,4-DDD                             | mg/kg | <1.0        | -                            | ND              |
| 2,4-DDE                             | mg/kg | <1.0        | -                            | ND              |
| 4,4-DDE                             | mg/kg | <1.0        | -                            | ND              |
| 2,4-DDT                             | mg/kg | <1.0        | -                            | ND              |
| 4,4-DDT                             | mg/kg | <1.0        | -                            | ND              |
| Endosulfan I                        | mg/kg | <1.0        | -                            | ND              |
| Endosulfan II                       | mg/kg | <1.0        | -                            | ND              |
| <b>Conclusion (Pass / Fail)</b>     |       |             |                              | <b>Pass</b>     |

**pH**

†BS EN ISO 4045:2018

| Test Component                  | Unit | Requirement                                                                                    | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|------|------------------------------------------------------------------------------------------------|------------------------------|-----------------|
| pH                              | -    | Minimum 3.2<br>(Minimum 3.5 for upholstery leather)<br>(Maximum 4.5 for chrome tanned leather) | ±0.24                        | 3.45            |
| delta pH                        | -    | <0.7                                                                                           | ±0.24                        | 0.25            |
| <b>Conclusion (Pass / Fail)</b> |      |                                                                                                |                              | <b>Pass</b>     |

**SCCP (C10-C13)**

**BS EN ISO 18219-1:2021**

**Detection limit: 50 mg/kg**

| Test Component                              | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------------------|-------|-------------|------------------------------|-----------------|
| Short Chain Chlorinated Paraffins (C10-C13) | mg/kg | <1000 (sum) | 14.9%                        | ND              |
| <b>Conclusion (Pass / Fail)</b>             |       |             |                              | <b>Pass</b>     |

**Sulphated Total Ash**

**BS EN ISO 4047:1998**

| Test Component                  | Unit | Requirement                      | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|------|----------------------------------|------------------------------|-----------------|
| Sulphated Total Ash             | %    | 7 - 11%<br>(Moisture free basis) | -                            | 3.8%            |
| <b>Conclusion (Pass / Fail)</b> |      |                                  |                              | <b>Pass</b>     |

# Total Digest Heavy Metals Screening

†CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3, BS EN ISO 17072-2:2019, ASTM E1613-12, BS EN 16711-1:2015, CPSC-CH-E1003-09.1

Detection limit: 0.1 mg/kg

| Test Component                  | Unit  | Requirement | Uncertainty of Measurement ± | Sample A Result |
|---------------------------------|-------|-------------|------------------------------|-----------------|
| Arsenic (As)                    | mg/kg | <100        | 4.3%                         | ND              |
| Cadmium (Cd)                    | mg/kg | <40         | 3.6%                         | ND              |
| Lead (Pb)                       | mg/kg | <100        | 2.7%                         | ND              |
| Mercury (Hg)                    | mg/kg | <0.5        | -                            | ND              |
| <b>Conclusion (Pass / Fail)</b> |       |             |                              | <b>Pass</b>     |

## Uncertainty of Measurement and Decision Rules

A non-binary simple acceptance decision rule based on guard bands has been used as the decision rule. The guard band is equal to the expanded standard deviation stated in the test result table. When the difference between the test result and the requirement is less than or equal to the expanded uncertainty of measurement, then a risk of false acceptance or false rejection is possible. The risk of false acceptance or false rejection is 2.5% based on a conformance probability of 97.5%.

### STANDARD TECHNICAL NOTES

(All may not be applicable)

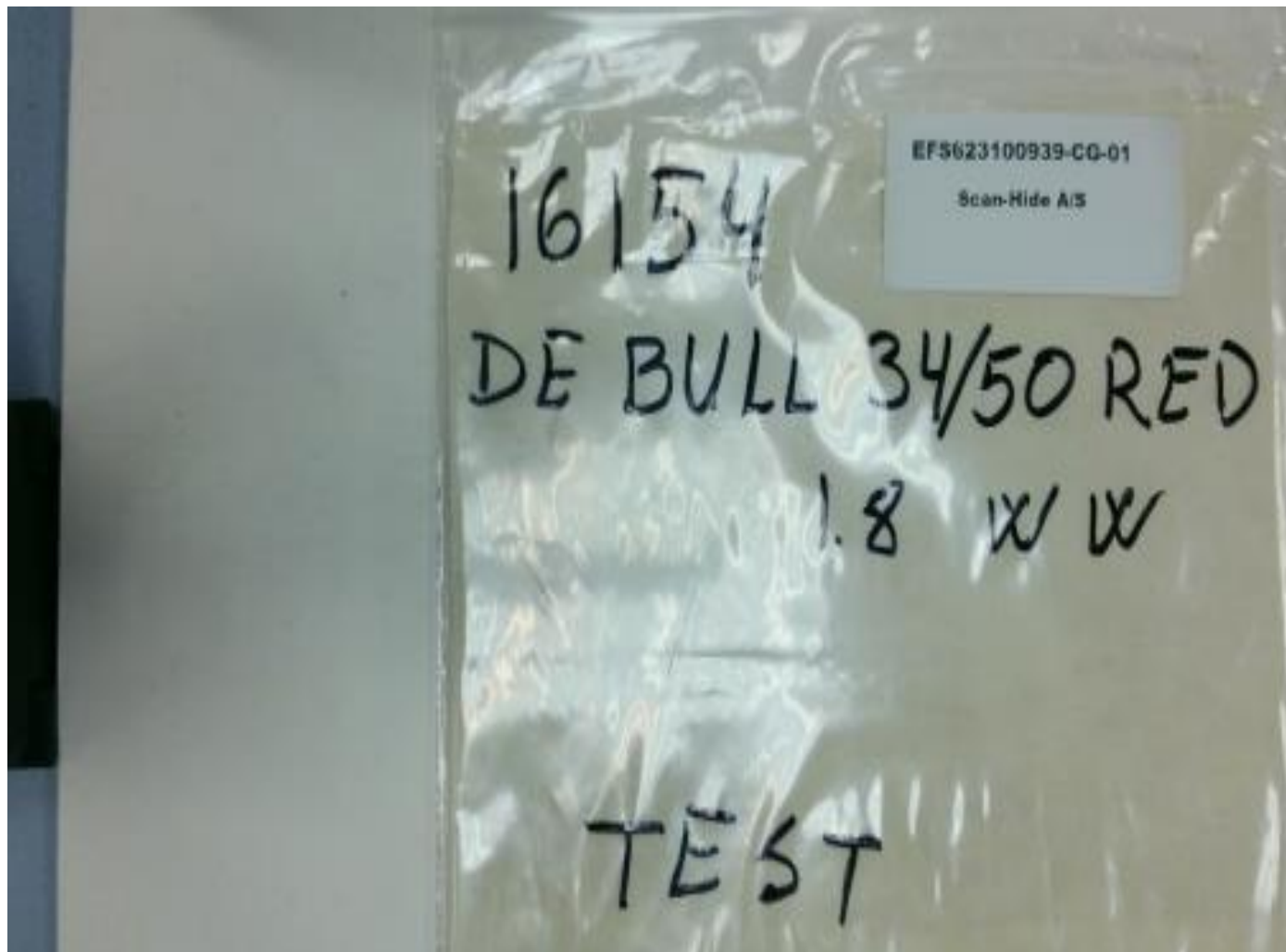
|                                              |                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Terms and Conditions                         | Our Terms and Conditions of Testing can be found at <a href="http://www.blcleathertech.com">www.blcleathertech.com</a>                                                                                                                                                                                                                                                                            |
| †                                            | Tests within the scope of accreditation. Test without † are not UKAS accredited.                                                                                                                                                                                                                                                                                                                  |
| Sampling Location                            | Unless specified in the test report, sample was taken from the official sampling location according to †BS EN ISO 2418:2017. If the sample was supplied as a swatch from the customer, sampling according to †BS EN ISO 2418:2017 is not possible.                                                                                                                                                |
| SC                                           | Test performed by a competent, Eurofins   BLC approved partner laboratory                                                                                                                                                                                                                                                                                                                         |
| I/S                                          | Insufficient Sample was submitted to perform the test                                                                                                                                                                                                                                                                                                                                             |
| Opinions                                     | Any opinions and interpretations expressed in this test report are based on current knowledge and experience and fall outside of the scope of ISO 17025 accreditation                                                                                                                                                                                                                             |
| Sample disposal                              | Stable samples will be disposed of after 6 weeks unless otherwise instructed. All other samples will be disposed of on completion of testing                                                                                                                                                                                                                                                      |
| ND                                           | None Detected (detection limits are included with the test results)                                                                                                                                                                                                                                                                                                                               |
| Conditioning                                 | Where necessary, the sample was conditioned and tested at 23°C ± 2°C and 50% ± 5% RH as specified in the reference standard atmosphere requirements of BS EN ISO 2419:2012 (leather) or in the alternative specific standard atmosphere requirements of BS EN ISO 139:2005+A1:2011 (textile).                                                                                                     |
| Composite analysis                           | If the result multiplied by the number of composited samples exceeds the requirement, then testing of the individual samples may be performed or recommended.                                                                                                                                                                                                                                     |
| Azo dyes analysis                            | Accreditation excludes: 2,4-Diaminoanisole                                                                                                                                                                                                                                                                                                                                                        |
| Chemical Analysis                            | Certain tests such as: Phthalates, Carcinogenic dyes, Allergenic disperse dyes, PAHs, Azo dyes, Organotins, Nitrosamines and Pesticides have multiple elements tested. For a full list of chemicals tested within these analyses please refer to the specification cited within this report. For further information contact <a href="mailto:info@blcleathertech.com">info@blcleathertech.com</a> |
| Decision Rule and Uncertainty of Measurement | Unless requested, the Eurofins   BLC's decision rule and estimated uncertainties of measurement will be used. For further information, please visit <a href="http://www.blcleathertech.com">Conformity and Uncertainty of Measurement in Testing (blcleathertech.com)</a>                                                                                                                         |

IMAGES OF SAMPLES:

ES623100938:



ES623100939:

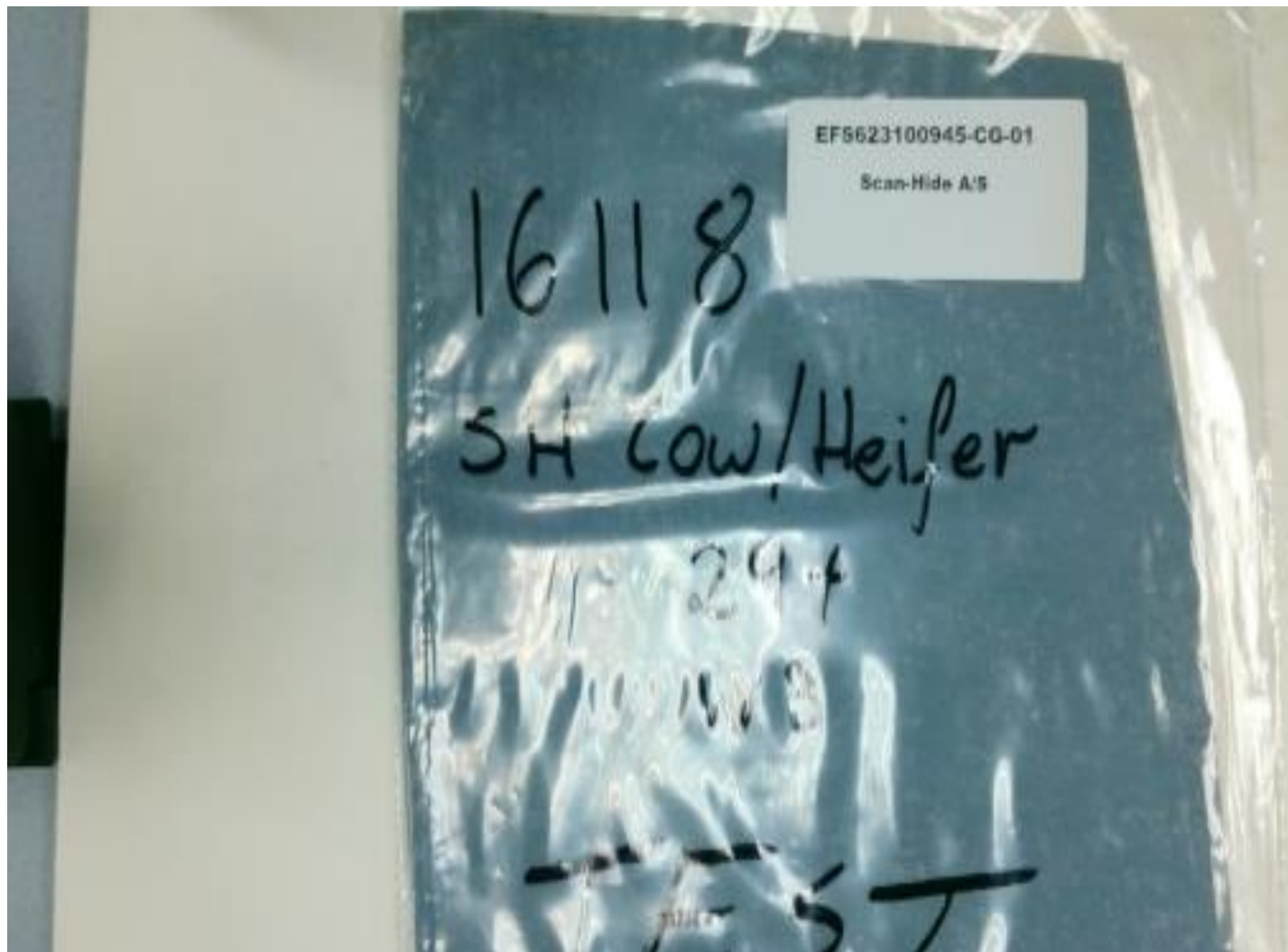




ES623100941:



ES623100945:



ES623100949:

