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Date Dec 23, 2025

## Test Report

**Order No.:** 55288551

**Test Report No.:** PB2564590

**Version 1**

Client: AUTOLAND Prosta Spółka Akcyjna  
Ms. Lucyna Śmiga  
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POLAND

Date of order: Nov 18, 2025

Sample received: Nov 18, 2025

Number of samples: 1 sample(s)

Scope of investigation: Testing of screen cleaner summer

Testing period: Nov 18, 2025 - Dec 23, 2025

### Test result:

- see following pages -

Accredited Testing Laboratory D-PL-11060-03-00 in Stuttgart and Halle (Saale)

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Jann Fehlauer

**1 Sample designation**

Sample no.	Designation
55288551001	SUMMER SCREEN WASH (PISK PISK LETNI PLYN DO SPRYSKIWACZY) 145/11/25

Sample no.	Sample picture
55288551001	

## 2 Polycarbonate compatibility

### Test method:

An uncoated polycarbonate bar is mounted into the test gadget, tempered to 80 °C and covered with the tested sample. The testing is performed in three replicates.

### Conditions:

- Strain of the outer fibre: each 1 %
- Sample amount: approx. 0,5 ml
- Test duration: 48 hours at 80 °C

### Test result:

Sample no.	Assessment	Test method
55288551001	no stress cracking	DIN EN ISO 22088-3:2006-11 <sup>(a)</sup>

## 3 Rubber compatibility according to DEKRA test specification

### Test method:

Wiper materials and rubber seals for automotive applications are tempered at room temperature and covered with the test sample for 24 hours. Afterwards a visual examination of surface changes is carried out.

### Test result:

Sample no.	Assessment	Test method
55288551001	no change	Lab-AA-1425:2010-06 <sup>(n)</sup>

#### 4 Lacquer compatibility according to DEKRA test specification

##### Test method:

Lacquered plates with 2-K-lacquering (moonland grey metallic (OPEL) and black metallic (MB 189)) and Uni lacquering (dark blue (VW Y5L) and imola red II (BMW)) are covered with the test sample and tempered at room temperature and also at 50°C for 24 hours. Afterwards a visual examination of surface changes is carried out.

##### Test results:

##### 4.1 grey, metallic (OPEL moonland grey)

Sample no.	Assessment		Test method
	room temperature	50°C	
55288551001	no change	no change	Lab-AA-1400:2023-01 <sup>(n)</sup>

##### 4.2 black, metallic (MB 189)

Sample no.	Assessment		Test method
	room temperature	50°C	
55288551001	no change	no change	Lab-AA-1400:2023-01 <sup>(n)</sup>

##### 4.3 dark blue, uni (VW Y5L)

Sample no.	Assessment		Test method
	room temperature	50°C	
55288551001	no change	no change	Lab-AA-1400:2023-01 <sup>(n)</sup>

##### 4.4 red, uni (BMW imolared II)

Sample no.	Assessment		Test method
	room temperature	50°C	
55288551001	no change	no change	Lab-AA-1400:2023-01 <sup>(n)</sup>

## 5 Metal compatibility according to DEKRA test specification

### Test method:

Metals for automotive applications are tempered at room temperature and at 50°C and covered with the test sample for 24 hours.  
Afterwards a visual examination of surface changes is carried out.

### Test results:

#### 5.1 Aluminium compatibility (anodized)

Sample no.	Assessment		Test method
	room temperature	50°C	
55288551001	no change	no change	Lab-AA-1443:2012-02 <sup>(n)</sup>

#### 5.2 Aluminium compatibility (raw)

Sample no.	Assessment		Test method
	room temperature	50°C	
55288551001	no change	no change	Lab-AA-1443:2012-02 <sup>(n)</sup>

#### 5.3 Material compatibility with copper

Sample no.	Assessment		Test method
	room temperature	50°C	
55288551001	discoloration <sup>1</sup>	slight discoloration <sup>1</sup>	Lab-AA-1443:2012-02 <sup>(n)</sup>

<sup>1</sup> not negatively evaluated yet

#### 5.4 Material compatibility with brass

Sample no.	Assessment		Test method
	room temperature	50°C	
55288551001	slight discoloration <sup>1</sup>	no change	Lab-AA-1443:2012-02 <sup>(n)</sup>

<sup>1</sup> not negatively evaluated yet

#### 5.5 Material compatibility with steel

Sample no.	Assessment		Test method
	room temperature	50°C	
55288551001	discoloration <sup>1</sup>	slight discoloration <sup>1</sup>	Lab-AA-1443:2012-02 <sup>(n)</sup>

<sup>1</sup> not negatively evaluated yet

**5.6 Material compatibility with stainless steel**

Sample no.	Assessment		Test method
	room temperature	50°C	
55288551001	no change	no change	Lab-AA-1443:2012-02 <sup>(n)</sup>

**5.7 Material compatibility with chromed steel**

Sample no.	Assessment		Test method
	room temperature	50°C	
55288551001	no change	no change	Lab-AA-1443:2012-02 <sup>(n)</sup>

## 6 Plastics compatibility according to DEKRA test specification

### Test method:

Various plastics and copolymeres are tempered at room temperature and also at 50°C and covered with the tested sample for 24 hours.  
Afterwards a visual examination of surface changes is carried out.

### Test results:

#### 6.1 Polyethylene (PE-HD)

Sample no.	Assessment		Test method
	room temperature	50°C	
55288551001	no change	no change	Lab-AA-1478:2019-01 <sup>(n)</sup>

#### 6.2 Polypropylene (PP)

Sample no.	Assessment		Test method
	room temperature	50°C	
55288551001	no change	no change	Lab-AA-1478:2019-01 <sup>(n)</sup>

#### 6.3 Polystyrene (PS)

Sample no.	Assessment		Test method
	room temperature	50°C	
55288551001	no change	no change	Lab-AA-1478:2019-01 <sup>(n)</sup>

#### 6.4 Polymethyl methacrylate (PMMA)

Sample no.	Assessment		Test method
	room temperature	50°C	
55288551001	no change	no change	Lab-AA-1478:2019-01 <sup>(n)</sup>

#### 6.5 Acrylonitril-Butadiene-Styrene (ABS)

Sample no.	Assessment		Test method
	room temperature	50°C	
55288551001	no change	no change	Lab-AA-1478:2019-01 <sup>(n)</sup>

#### 6.6 Polyoxymethylene (POM)

Sample no.	Assessment		Test method
	room temperature	50°C	
55288551001	no change	no change	Lab-AA-1478:2019-01 <sup>(n)</sup>

BG: Limit of quantification < BG: Test result below the limit of quantification

**6.7 Polyvinyl chloride (PVC)**

Sample no.	Assessment		Test method
	room temperature	50°C	
55288551001	no change	no change	Lab-AA-1478:2019-01 <sup>(n)</sup>

**6.8 Polyamide (PA)**

Sample no.	Assessment		Test method
	room temperature	50°C	
55288551001	swelling <sup>1</sup>	swelling <sup>1</sup>	Lab-AA-1478:2019-01 <sup>(n)</sup>

<sup>1</sup> not negatively evaluated yet

**7 Flash point measurement**

Sample no.	Result [°C]	Test method
55288551001	no flashpoint up to 100°C	DIN EN ISO 13736:2022-12 <sup>(a)</sup>

Annotation:

Measuring tolerance of the determination:  $\pm 1$  °C. The uncertainty of measurement given in the standard is fulfilled.

**8 Measurement of pH value (20 °C)**

Sample no.	Result	Test method
55288551001	7.6	DIN EN ISO 10523:2012-04 <sup>(a)</sup>

**9 Measurement of density**

Sample no.	Result [g/cm <sup>3</sup> ]	Test method
55288551001	0.995	DIN 51757:2011-01 <sup>(a)</sup>

**10 Measurement of refraction index**

Sample no.	Result	Test method
55288551001	1.3350	DIN 51423-2:2010-02 <sup>(a)</sup>

## 11 Solvent Screening

### 11.1 Content of aromatics (BTEX) with GC/FID

Sample no.	Substance	Result [% by weight]	Requirement [% by weight]	Test method
55288551001	Benzene	< 0.1	< 0.1	Lab-AA-1416:2022-05 <sup>(n)</sup>
	Toluene	< 0.1	< 0.1	
	Ethylbenzene	< 0.1	< 0.1	
	Xylene	< 0.1	< 0.1	

### 11.2 Content of chlorinated hydrocarbons (CHC) with GC/FID

Sample no.	Substance	Result [% by weight]	Requirement [% by weight]	Test method
55288551001	Dichloromethane	< 0.1	< 0.1	Lab-AA-1416:2022-05 <sup>(n)</sup>
	Trichloromethane (Chloroform)	< 0.1	< 0.1	
	1,1,1-Trichloroethane	< 0.1	< 0.1	
	Trichloroethene	< 0.1	< 0.1	
	Tetrachloroethylene (PER)	< 0.1	< 0.1	
	1,2-Dichlorobenzene	< 0.1	< 0.1	

### 11.3 Content of methanol with GC/FID

Sample no.	Substance	Result [% by weight]	Requirement [% by weight]	Test method
55288551001	Methanol	< 0.1	< 0.1	DEKRA test method (GC-MS) <sup>(n)</sup>

BG: Limit of quantification      < BG: Test result below the limit of quantification

## 12 Notifiable fragrances

### Test results:

Parameter	CAS-Nr.	Unit	Result	Limit value <sup>1</sup>	Test method
d-Limonene	5989-27-5	%	< 0.0015	0.01	Lab-AA-1426:2014-01 <sup>(n)</sup>
Linalool	78-70-6		< 0.0015		
Benzyl alcohol	100-51-6		< 0.0015		
Methylheptincarbonat / Methyl-2-ocynoate	111-12-6		< 0.0015		
Citronellol	106-22-9		< 0.0015		
Geraniol	106-24-1		< 0.0015		
Citral	5392-40-5		< 0.0015		
Cinnamalaldehyde	122-40-7		< 0.0015		
Hydroxycitronellal	107-75-5		< 0.0015		
Anise alcohol	105-13-5		< 0.0015		
Cinnamyl alcohol	104-55-2		< 0.0015		
Eugenol	97-53-0		< 0.0015		
Alpha-isomethyl-ionone	127-51-5		< 0.0015		
Isoeugenol	97-54-1		< 0.0015		
2-(4-tert-Butylbenzyl)propionaldehyde	80-54-6		< 0.0015		
Coumarin	91-64-5		< 0.0015		
Evernia prunastri extract	90028-68-5		< 0.0015		
Amyl cinnamal	101-85-9		< 0.0015		
Farnesol	4602-84-0		< 0.0015		
Amylcinnamyl alcohol	104-54-1		< 0.0015		
Hydroxyisohexyl-3-cyclohexene carboxaldehyde	31906-04-4		< 0.0015		
Hexyl Cinnamal	101-86-0		< 0.0015		
Benzyl benzoate	120-51-4		< 0.0015		
Benzyl salicylate	118-58-1	< 0.0015			
Evernia furfuracea extract	90028-67-4	< 0.0015			
Benzyl cinnamate	103-41-3	< 0.0015			

<sup>1</sup> If added at concentrations exceeding 0.01 % by weight, the allergenic fragrances must be indicated

### Assessment:

There were no substances detected with a content of  $\geq 0.01$  % w/w.

### 13 Cleaning performance according to DEKRA test specification <sup>(a)</sup>

#### Test method:

The front screen of a VW Golf VI was prepared with DEKRA test dirt mixture "All Season" and test dirt mixture II (insect simulant test dirt) of the draft "IKW recommendation for the quality assessment of screen cleaners for the windscreen washer system.

The performance of the cleaner was assessed by counting the „cleaning cycles“ to remove residues of the dirt mixture to get a „free sight“ through the front screen and to wash the front screen totally clean. A „cleaning cycle“ is defined as one turn of the wiper while the cleaner is added, followed by three further turns of the wiper alone.

The test is performed three times (a to c) in comparison to a standard product.

#### 13.1 Cleaning performance with DEKRA test dirt "All Season"

#### Test conditions:

Relative humidity [%]: approx. 50  
 Temperature: approx. +10 °C

#### Test results

Sample no.	Cleaning Performance Number of cleaning cycles								Test method
	„free sight“				„clean“				
	a	b	c	Ø	a	b	c	Ø	
55288551001 (undiluted)	5	4	4	4.3	6	5	5	5.3	Lab-AA-1475:2019-08 <sup>(a)</sup>
Reference	4	4	4	4.0	5	5	5	5.0	

#### Set of criteria All Season („clean“)

very good cleaning performance: ≤ 5 cycles  
 good cleaning performance: 6-7 cycles  
 adequate cleaning performance: 8-9 cycles  
 inadequate cleaning performance: > 9 cycles

#### Assessment

The tested sample showed "very good" cleaning performance on DEKRA test dirt "All Season".

### 13.2 Cleaning performance with test dirt mixture II (insect simulant test dirt)

#### Test conditions:

Relative humidity [%]: approx. 50  
 Temperature: approx. +10 °C

#### Test results

Sample no.	Cleaning Performance Number of cleaning cycles								Test method
	„free sight“				„clean“				
	a	b	c	Ø	a	b	c	Ø	
55288551001 (undiluted)	5	5	5	5.0	6	6	6	6.0	Lab-AA-1475:2019-08 (a)
Reference	6	6	6	6.0	7	7	7	7.0	

#### Set of criteria test dirt mixture II („clean“)

very good cleaning performance: ≤ 7 cycles  
 good cleaning performance: 8-9 cycles  
 adequate cleaning performance: 10-11 cycles  
 inadequate cleaning performance: > 11 cycles

#### Assessment

The tested sample showed "very good" cleaning performance on "insect simulant test dirt".

### 13.3 Overall evaluation cleaning performance

The tested sample showed "very good" cleaning performance on DEKRA test dirt "All Season" and "very good" cleaning performance "insect simulant test dirt".

## 14 Hard water stability according DEKRA criteria (Lab-AA-1474:2012-04<sup>(n)</sup>)

### Test method:

50 mL or 100 mL of the sample to be examined are mixed with demineralised water and synthetic hard water.

Composition of the synthetic hard water:

Sodium sulphate:	148 mg/L
Sodium chloride:	165 mg/L
Sodium hydrogencarbonate:	138 mg/L
Calcium chloride:	275 mg/L

The mixtures are tempered for 10 days at 60°C with occasional shaking. Afterwards a visual examination of precipitates is carried out at +60 °C, at room temperature and at +4 °C.

### Test results:

#### 14.1 Mixture with demineralised water

Sample no.	Dilution	Assessment
55288551001	100 mL sample + 100 mL demineralised water	no precipitate
	50 mL sample + 100 mL demineralised water	no precipitate

#### 14.2 Mixture with synthetic hard water

Sample no.	Dilution	Assessment
55288551001	100 mL sample + 100 mL Hard water	no precipitate
	50 mL sample + 100 mL Hard water	no precipitate

#### 14.3 Assessment

The tested sample showed no noticeable problems.

**15 Evaluation of handling, labelling and consumer protection**

Sample no.	Assessment	
55288551001	Safety data sheet	no retail package available yet
	Address	no retail package available yet
	Labeling CLP 1272/2008	no retail package available yet
	Package instructions	no retail package available yet
	Recycling information	no retail package available yet
	Childproofness <sup>1</sup>	no retail package available yet
	Closeness	no retail package available yet

<sup>1</sup> Requirement DEKRA product label: childproof closure or adequate content of bittern

The evaluation of handling, labelling and consumer protection may only be carried out when the retail package and safety data sheet are provided.

**16 Assessment**

Requirements for obtaining a DEKRA product label are **fulfilled** (except for the still outstanding check of sales packaging and labelling).

**Remarks:**

The test results refer exclusively to the samples specified. The decision rule for the evaluation of conformity of test results can be found at:

[decision rule \(german\)](#)  
[decision rule \(english\)](#)

**Pass/fail:** Unless otherwise stated, the statement of conformity decision will be made without taking the measurement uncertainty into account. Detailed information regarding measurement uncertainties are available on request.

**Inconclusiv:** In the case of measurement results that lie at the limit value/on the tolerance limit and measurement results that lie above the limit value/outside the tolerance limits, but whose measurement uncertainty range falls below this limit value/tolerance limit, the limit value/tolerance limit is considered to be met only partially. Taking the measurement uncertainty into account, the measurement result could still meet the requirements, but the risk of exceeding is high.

A reproduction in excerpts of the test report must not be made without the written consent of the test laboratory. Chemical and material blanks are taken into account when determining the results. Samples will be stored for max. 6 months (for exceptions and specific storage times see QMH).

For system reasons, the name of the in-house procedures was changed from QMA xxxx to Lab-AA-xxxx on January 1, 2025.

**Declaration:**

a = accredited test method, n = not accredited test method,

Pa = Analysis carried out by partner laboratory (accredited test method), Pn = Analysis carried out by partner laboratory (not accredited test method),

Ha = Analysis carried out by DEKRA lab Halle (accredited test method), Hn = Analysis carried out by DEKRA lab Halle (not accredited test method),

SBa = Analysis carried out by DEKRA lab Saarbrücken (accredited test method), SBn = Analysis carried out by DEKRA lab Saarbrücken (not accredited test method),

Ba = Analysis carried out by DEKRA lab Bretten (accredited test method), Bn = Analysis carried out by DEKRA lab Bretten (not accredited test method)

Stuttgart, Dec 23, 2025

**DEKRA Automobil GmbH**  
 Laboratory for Environmental and Product Analysis

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