

Test Report

No. CANAUTO2110386601

Date: 29 Jun 2021

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GUANGZHOU TIEYING SPRING TECHNOLOGY CO., LTD

2ND PLANT, SELF-COMPILED NO.2, QIAOXING GUANGZHU ROAD, DONGCHONG TOWN, NANSHA DISTRICT, GUANGZHOU, GUANGDONG, CHINA

Sample Name : Gas spring
SGS Job No. : GZAT2106009262NM - GZ
Sample Receiving Date : 10 Jun 2021
Testing Period : 10 Jun 2021 - 29 Jun 2021
Test Requested : As specified by applicant, determination of heavy metals, with reference to End-of Life Vehicles Directive (2000/53/EC) and its amendment directives.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).
Conclusion : Based on the performed tests on submitted samples as specified by applicant, the test results of heavy metals comply with End-of Life Vehicles Directive (2000/53/EC) and its amendment directives.

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Jenny Liao
Approved Signatory



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Test Method :

With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report

(1) With reference to IEC 62321-3-1:2013, Screening by EDXRF spectroscopy
(2) Wet chemical test method

a. With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES

b. With reference to IEC 62321-5:2013, determination of Lead by ICP-OES

c. With reference to IEC 62321-4:2013+A1:2017, determination of Mercury by ICP-OES

d. With reference to IEC 62321-7-1:2015, IEC 62321-7-2:2017 & ISO 17075-1:2017, determination of Hexavalent chromium by Colorimetric method using UV-Vis

e. With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF ⁽¹⁾	Result of Wet Chemical Testing ⁽²⁾ (mg/kg)	Conclusion on ELV	Sample Submitted / Resubmitted Date
1	Silvery metal part	-	Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	10 Jun 2021
2	Black coating	-	Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	10 Jun 2021
3	Silvery metal tube	-	Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	10 Jun 2021
4	Silvery metal shaft	-	Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL IN --- ---	--- --- --- ND --- ---	Comply Comply Comply Comply --- ---	10 Jun 2021



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5	Silvery metal part	-	Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	10 Jun 2021
6	Silvery metal screw (base)	-	Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL IN --- ---	--- --- --- ND --- ---	Comply Comply Comply Comply --- ---	10 Jun 2021
7	Silvery metal part	-	Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	10 Jun 2021
8	Black rubber ring	-	Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	10 Jun 2021



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF ⁽¹⁾	Result of Wet Chemical Testing ⁽²⁾ (mg/kg)	Conclusion on ELV	Sample Submitted / Resubmitted Date
9	Black rubber part	-	Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	10 Jun 2021
10	Black plastic part	-	Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	10 Jun 2021
11	Silver-grey metal ring	-	Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL IN --- ---	--- --- --- ND --- ---	Comply Comply Comply Comply --- ---	10 Jun 2021
12	Brown translucent grease	-	Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	10 Jun 2021



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Remark

- (1) (a) There are the results on total Br while test items on restricted substances are PBBs and PBDEs. There is the result on total Cr while test item on restricted substances is Cr(VI).
- (b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed if the concentration exceeds the below warning value according to IEC62321-3-1:2013 (unit: mg/kg)

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

- (c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection, -- = Not regulated.
- (d) The XRF screening test for ELV and RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

- (2) (a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not conducted,
- (b) Unit and MDL in wet chemical test

Test Item	Pb	Cd	Hg
Unit	mg/kg	mg/kg	mg/kg
MDL	2	2	2

The MDL for single compound of PBBs and PBDEs is 5 mg/kg.

MDL of Cr(VI) for Polymer and Composite sample is 8 mg/kg.

MDL of Cr(VI) for Leather sample is 3 mg/kg.

MDL of Cr(VI) for metal sample is 0.10µg/cm².



(c) ▼ =Metal sample

a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm².

The sample coating is considered to contain CrVI

b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²).

The coating is considered a non-CrVI based coating

c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive

- unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

IEC 62321 series is equivalent to EN 62321 series

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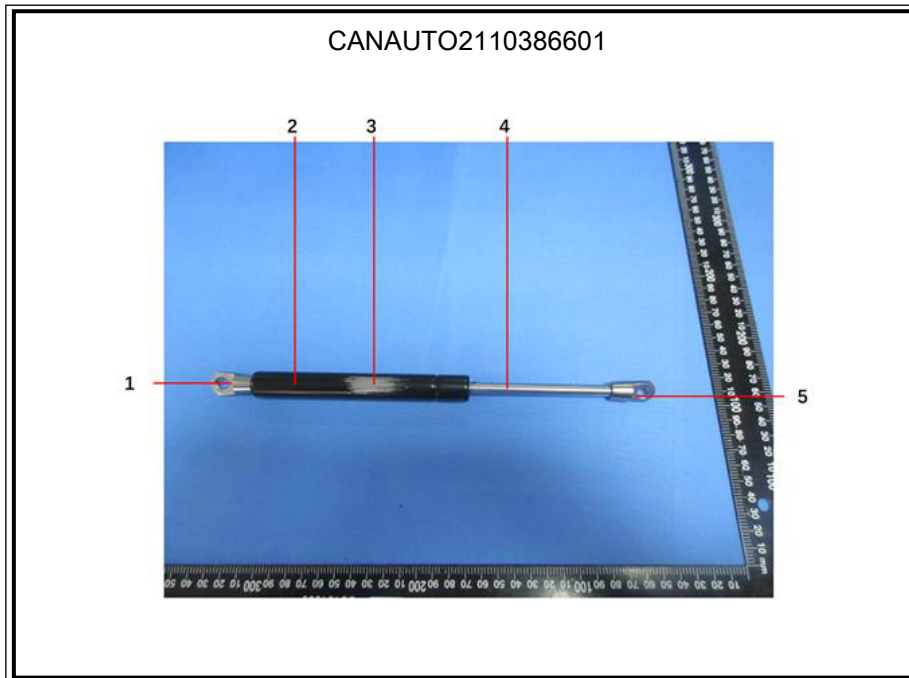
(3) ——— = Not provided by applicant.



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Sample photo:



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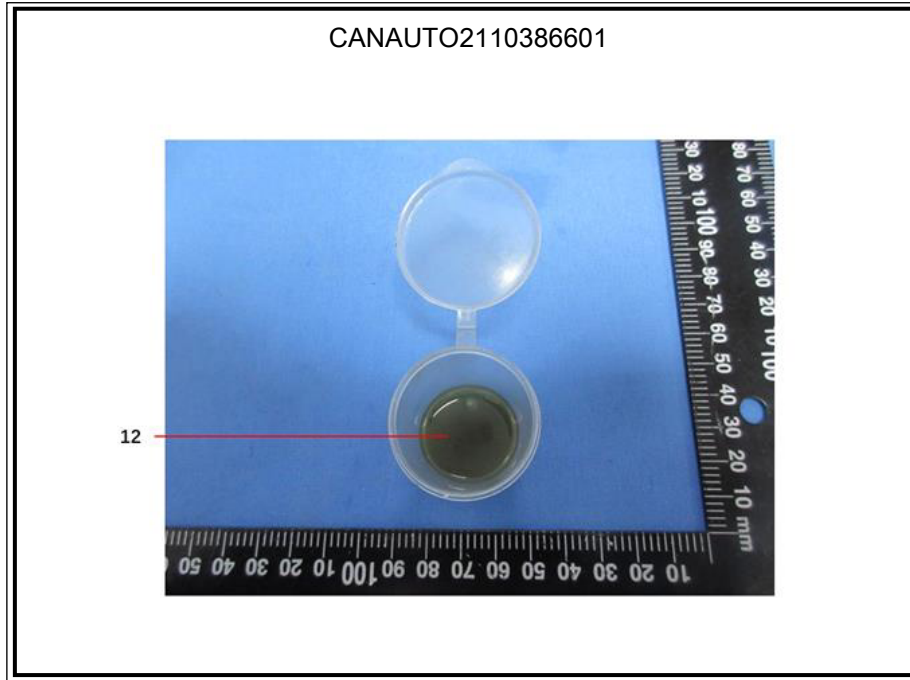




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