

Test Report

No. CANEC1513725001

Date: 12 Aug 2015

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DONGGUAN SHUANGLIAN BEARING CO.,LTD

FLOOR 5,ZHONGHUAN BUILDING,BADA ROAD,GUANCHENG DISTRICT,DONGGUAN
CITY,GUANGDONG PROVINCE,CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : OUTER RING; INNER RING; SHIELD; STEEL BALL; CAGE; GREASE

SGS Job No. : CP15-045514 - GZ

Model No. : 608ZZ

Client Ref. Info. : SEE REMARK

Date of Sample Received : 06 Aug 2015

Testing Period : 06 Aug 2015 - 10 Aug 2015

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits in RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

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

Yan

Yan Lee

Approved Signatory



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Test Results :

Test Part Description :

| Specimen No. | SGS Sample ID | Description |
|--------------|------------------|-------------------------------------|
| SN1 | CAN15-137250.001 | Silver-grey metal metal ring(big) |
| SN2 | CAN15-137250.002 | Silver-grey metal metal ring(small) |
| SN3 | CAN15-137250.003 | Silver-grey metal metal |
| SN4 | CAN15-137250.004 | Silver-grey metal metal bead |
| SN5 | CAN15-137250.005 | Silver-grey metal metal ring |
| SN6 | CAN15-137250.006 | Brown paste |

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method : (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
 (2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
 (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
 (4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
 (5)With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.

| Test Item(s) | Limit | Unit | MDL | 006 |
|----------------------------|-------|-------|-----|-----|
| Cadmium (Cd) | 100 | mg/kg | 2 | ND |
| Lead (Pb) | 1,000 | mg/kg | 2 | ND |
| Mercury (Hg) | 1,000 | mg/kg | 2 | ND |
| Hexavalent Chromium (CrVI) | 1,000 | mg/kg | 2 | ND |
| Sum of PBBs | 1,000 | mg/kg | 5 | ND |
| Monobromobiphenyl | - | mg/kg | 5 | ND |
| Dibromobiphenyl | - | mg/kg | 5 | ND |
| Tribromobiphenyl | - | mg/kg | 5 | ND |
| Tetrabromobiphenyl | - | mg/kg | 5 | ND |
| Pentabromobiphenyl | - | mg/kg | 5 | ND |
| Hexabromobiphenyl | - | mg/kg | 5 | ND |
| Heptabromobiphenyl | - | mg/kg | 5 | ND |



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| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>006</u> |
|--------------------------|--------------|-------------|------------|------------|
| Octabromobiphenyl | - | mg/kg | 5 | ND |
| Nonabromobiphenyl | - | mg/kg | 5 | ND |
| Decabromobiphenyl | - | mg/kg | 5 | ND |
| Sum of PBDEs | 1,000 | mg/kg | 5 | ND |
| Monobromodiphenyl ether | - | mg/kg | 5 | ND |
| Dibromodiphenyl ether | - | mg/kg | 5 | ND |
| Tribromodiphenyl ether | - | mg/kg | 5 | ND |
| Tetrabromodiphenyl ether | - | mg/kg | 5 | ND |
| Pentabromodiphenyl ether | - | mg/kg | 5 | ND |
| Hexabromodiphenyl ether | - | mg/kg | 5 | ND |
| Heptabromodiphenyl ether | - | mg/kg | 5 | ND |
| Octabromodiphenyl ether | - | mg/kg | 5 | ND |
| Nonabromodiphenyl ether | - | mg/kg | 5 | ND |
| Decabromodiphenyl ether | - | mg/kg | 5 | ND |

Notes :

(1) The maximum permissible limit is quoted from directive 2011/65/EU, Annex II.

RoHS Directive 2011/65/EU

Test Method : (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
 (2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
 (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
 (4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by spot test / Colorimetric Method using UV-Vis.

| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> | <u>002</u> | <u>003</u> |
|----------------------------|--------------|-------------|------------|------------|------------|------------|
| Cadmium (Cd) | 100 | mg/kg | 2 | ND | ND | ND |
| Lead (Pb) | 1,000 | mg/kg | 2 | ND | ND | ND |
| Mercury (Hg) | 1,000 | mg/kg | 2 | ND | ND | ND |
| Hexavalent Chromium (CrVI) | - | - | ◇ | Negative | Negative | Negative |

| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>004</u> | <u>005</u> |
|----------------------------|--------------|-------------|------------|------------|------------|
| Cadmium (Cd) | 100 | mg/kg | 2 | ND | ND |
| Lead (Pb) | 1,000 | mg/kg | 2 | ND | ND |
| Mercury (Hg) | 1,000 | mg/kg | 2 | ND | ND |
| Hexavalent Chromium (CrVI) | - | - | ◇ | Negative | Negative |

Notes :



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(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II.

(2) ♦ Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)

♦ Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

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

Remark: The result(s) of 006 shown is/are of the total weight of wet sample.



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REMARK:

| | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|-----------|--------|
| 603 ZZ | 623 ZZ | 633 ZZ | 681X ZZ | 693 ZZ | R2 ZZ | F682 ZZ | MF52 ZZ | F2.5-6 |
| 604 ZZ | 624 ZZ | 634 ZZ | 682 ZZ | 694 ZZ | R3 ZZ | F683 ZZ | MF63 ZZ | F3-8 |
| 605 ZZ | 625 ZZ | 635 ZZ | 682X ZZ | 695 ZZ | R4 ZZ | F684 ZZ | MF74 ZZ | F4-9 |
| 606 ZZ | 626 ZZ | 636 ZZ | 683 ZZ | 696 ZZ | R6 ZZ | F685 ZZ | MF83 ZZ | F4-10 |
| 607 ZZ | 627 ZZ | 637 ZZ | 684 ZZ | 697 ZZ | R8 ZZ | F686 ZZ | MF84 ZZ | F5-10 |
| 608 ZZ | 628 ZZ | 638 ZZ | 685 ZZ | 698 ZZ | R10 ZZ | F687 ZZ | MF85 ZZ | F5-11 |
| 609 ZZ | 629 ZZ | 639 ZZ | 686 ZZ | 699 ZZ | R12 ZZ | F688 ZZ | MF95 ZZ | F5-12 |
| 6000 ZZ | 6200 ZZ | 6300 ZZ | 687 ZZ | 6900 ZZ | R14 ZZ | F689 ZZ | MF104 ZZ | F6-12 |
| 6001 ZZ | 6201 ZZ | 6301 ZZ | 688 ZZ | 6901 ZZ | R16 ZZ | F6800 ZZ | MF105 ZZ | F6-14 |
| 6002 ZZ | 6202 ZZ | 6302 ZZ | 689 ZZ | 6902 ZZ | R18 ZZ | F6801 ZZ | MF115 ZZ | F7-13 |
| 6003 ZZ | 6203 ZZ | 6303 ZZ | 6800 ZZ | 6903 ZZ | R20 ZZ | F6802 ZZ | MF106 ZZ | F7-15 |
| 6004 ZZ | 6204 ZZ | 6305 ZZ | 6801 ZZ | 6904 ZZ | R24 ZZ | F692 ZZ | MF126 ZZ | F7-17 |
| 6005 ZZ | 6205 ZZ | 6306 ZZ | 6802 ZZ | 6905 ZZ | R144 ZZ | F693 ZZ | MF117 ZZ | F8-16 |
| 6006 ZZ | 6206 ZZ | 6307 ZZ | 6803 ZZ | 6906 ZZ | R168 ZZ | F694 ZZ | MF128 ZZ | F8-19 |
| 6007 ZZ | 6207 ZZ | 6308 ZZ | 6804 ZZ | 6907 ZZ | R166 ZZ | F695 ZZ | MF137 ZZ | F8-22 |
| 6008 ZZ | 6208 ZZ | 6309 ZZ | 6805 ZZ | 6908 ZZ | R1810 ZZ | F696 ZZ | MF148 ZZ | F9-17 |
| 6009 ZZ | 6209 ZZ | 6310 ZZ | 6806 ZZ | 6909 ZZ | R188 ZZ | F697 ZZ | MF149 ZZ | F9-20 |
| 6010 ZZ | 6210 ZZ | 6300-2RS | 6807 ZZ | 6910 ZZ | R1212 ZZ | F698 ZZ | FR3 ZZ | F10-17 |
| 607-2RS | 625-2RS | 6301-2RS | 6808 ZZ | 6911 ZZ | R2-5 ZZ | F699 ZZ | FR4 ZZ | F10-18 |
| 608-2RS | 626-2RS | 6302-2RS | 6809 ZZ | 6912 ZZ | MR52 ZZ | F6900 ZZ | FR6 ZZ | F12-21 |
| 609-2RS | 627-2RS | 6303-2RS | 6810 ZZ | 6900-2RS | MR63 ZZ | F6901 ZZ | FR8 ZZ | F12-22 |
| 6000-2RS | 628-2RS | 6304-2RS | 6811 ZZ | 6901-2RS | MR93 ZZ | F6902 ZZ | FR144 ZZ | F12-23 |
| 6001-2RS | 629-2RS | 6305-2RS | 6812 ZZ | 6902-2RS | MR74 ZZ | F623 ZZ | FR168 ZZ | 683 |
| 6002-2RS | 6200-2RS | 6306-2RS | 6800-2RS | 6903-2RS | MR83 ZZ | F624 ZZ | F63800 ZZ | 684 |
| 6003-2RS | 6201-2RS | 6307-2RS | 6801-2RS | 6904-2RS | MR84 ZZ | F625 ZZ | 62200-2RS | 685 |
| 6004-2RS | 6202-2RS | 6308-2RS | 6802-2RS | 6905-2RS | MR85 ZZ | F627 ZZ | 62201-2RS | 686 |



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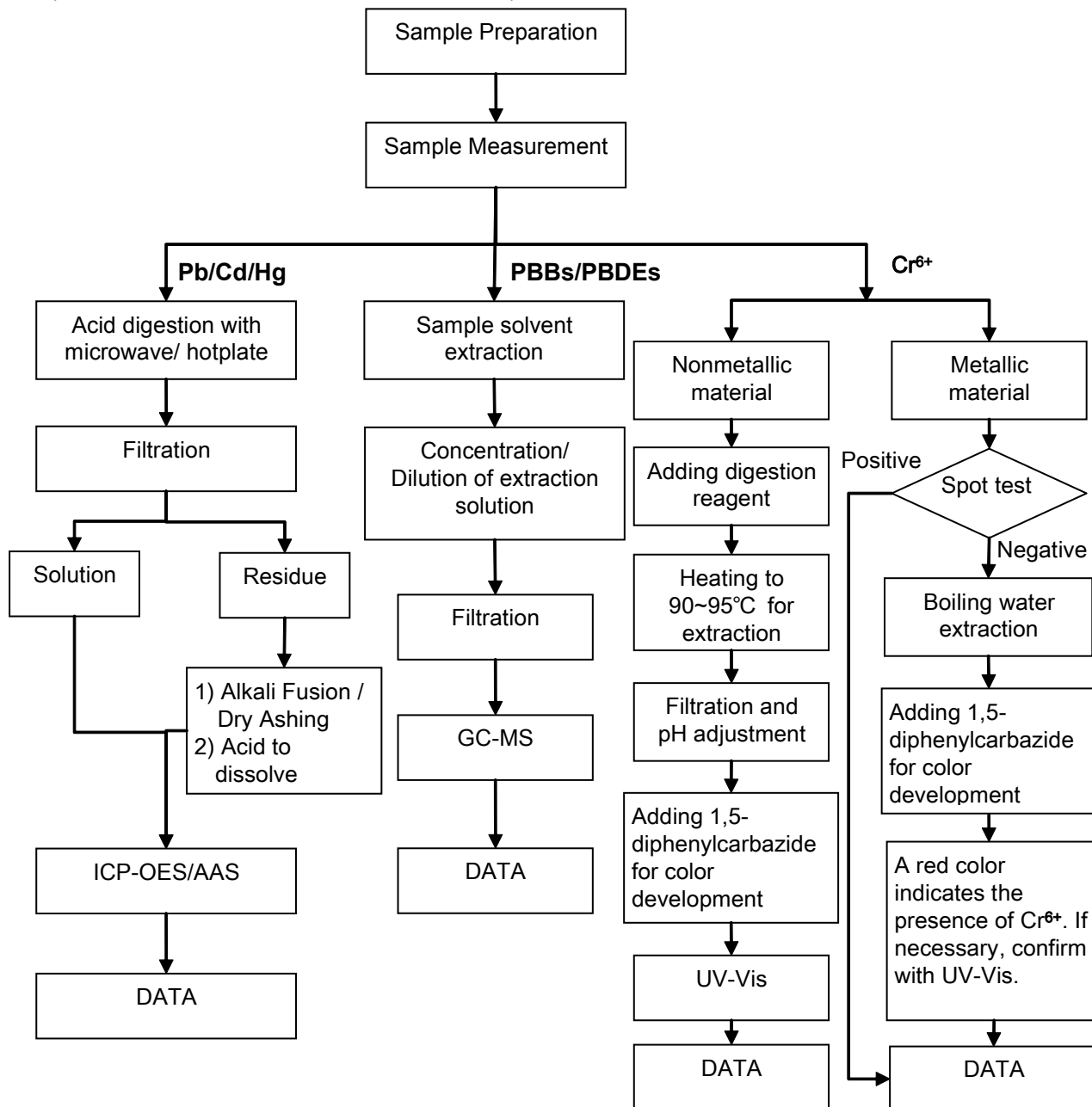
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|----------|-----------|----------|----------|-----------|----------|----------|-----------|----------|
| 6005-2RS | 6203-2RS | 6309-2RS | 6803-2RS | 6906-2RS | MR95 ZZ | F628 ZZ | 62202-2RS | 687 |
| 6006-2RS | 6204-2RS | 6310-2RS | 6804-2RS | 6907-2RS | MR104 ZZ | F629 ZZ | 62203-2RS | 688 |
| 6007-2RS | 6205-2RS | 6311-2RS | 6805-2RS | 6908-2RS | MR105 ZZ | F604 ZZ | 62204-2RS | 689 |
| 6008-2RS | 6206-2RS | 6312-2RS | 6806-2RS | 6909-2RS | MR115 ZZ | F605 ZZ | 16001 ZZ | MR128 |
| 6009-2RS | 6207-2RS | 6211-2RS | 6807-2RS | 6910-2RS | MR106 ZZ | F606 ZZ | 16002 ZZ | MR106 |
| 6010-2RS | 6208-2RS | 6212-2RS | 6808-2RS | 6911-2RS | MR126 ZZ | F607 ZZ | 16003 ZZ | MR74 |
| 6011-2RS | 6209-2RS | 6213-2RS | 6809-2RS | 6912-2RS | MR117 ZZ | F608 ZZ | 63800 ZZ | MR85 |
| 6012-2RS | 6210-2RS | 6214-2RS | 6810-2RS | F634 ZZ | MR137 ZZ | F609 ZZ | 63801 ZZ | MR63 |
| SG10 | SG15 | SG20 | 6811-2RS | F635 ZZ | MR128 ZZ | F6000 ZZ | 63802 ZZ | MR95 |
| LM3UU | LM4UU | LM5UU | 6812-2RS | F636 ZZ | MR148 ZZ | F6001 ZZ | 2085 | MR84 |
| 16000ZZ | 16000-2RS | 1601-2RS | SG25 | SG35 | MR149 ZZ | F6803ZZ | F6804ZZ | F6805ZZ |
| 16001ZZ | 16001-2RS | 1602-2RS | F6005ZZ | F6903ZZ | F6904ZZ | F6905ZZ | F6906ZZ | F16004ZZ |
| 16002ZZ | 16002-2RS | 1603-2RS | 1601 ZZ | F6700 ZZ | F6701ZZ | F63800ZZ | 62800ZZ | 62900ZZ |
| 16003ZZ | 16003-2RS | 1604-2RS | 1602 ZZ | 16100 ZZ | 6700ZZ | 6700-2RS | 6705ZZ | 6705-2RS |
| 16004ZZ | 16004-2RS | 1605-2RS | 1603 ZZ | 16101 ZZ | 6701ZZ | 6701-2RS | 6706ZZ | 6706-2RS |
| 16005ZZ | 16005-2RS | 1606-2RS | 1604 ZZ | 62000-2RS | 6702ZZ | 6702-2RS | 6707ZZ | 6707-2RS |
| 16006ZZ | 16006-2RS | 1607-2RS | 1605 ZZ | 62001-2RS | 6703ZZ | 6703-2RS | 6708ZZ | 6708-2RS |
| 16007ZZ | 16007-2RS | 1614-2RS | 1606 ZZ | 1607 ZZ | 6704ZZ | 6704-2RS | 6709ZZ | 6709-2RS |
| 1614 ZZ | 6710ZZ | 6710-2RS | | | | | | |

ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded).



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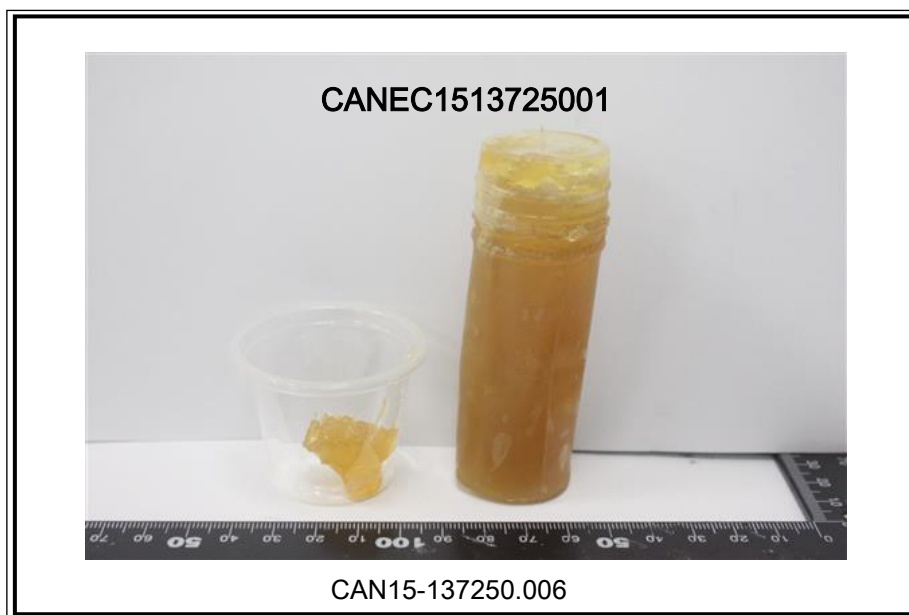
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