

TEST REPORT

REPORT NUMBER : TURA120106655

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SAMPLE DESCRIPTION :

- Sample 1** One sample of A3713259731 Spring Base - MBT
- Sample 2** One sample of 5540040190-MTZ-1 Crank Mill - ARÇ
- Sample 3** One sample of 2821080200-J.12 Bearing Cage - ARÇ
- Sample 4** One sample of 35007551 (VWM-42008) 400-500 Bearing Cage - VSL
- Sample 5** One sample of 644300701-QU 160-FA Engine Cover - ARÇ

DATE IN : 12 September, 2012

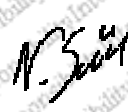
DATE OUT : 25 September, 2012

REQUEST : SVHC Testing regarding REACH Regulation (EC) No. 1907/2006 for updated SVHC List of 18th June 2012

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The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with ISO/IEC 17025 and UKAS accreditation requirements. Unless otherwise is specified, all Pass or Fail results are given without uncertainty considered. When uncertainty is taken into account, the result may be borderline. Borderline results need to be re-tested to determine their disposition up to customer's decision. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. Tests marked (*) in this test report are not included in the UKAS accreditation schedule for this laboratory.



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120106655

Test Method	Result	Requirements
Sample:		
Sample 1	Sample 2	Sample 3
		
Weight : 4.745 kg	Weight : 0.213 kg	Weight : 1.266 kg
Sample 4	Sample 5	
		
Weight : 0.964 kg	Weight : 10.94 kg	

Tested Component Parts:
CS=Combined Sample

CS	Description
1	CS 1 Combined sample of A3713259731 Spring Base – MBT, 5540040190-MTZ-1 Crank Mill – ARÇ, 2821080200-J.12 Bearing Cage – ARÇ, 35007551 (VWM-42008) 400-500 Bearing Cage – VSL, 644300701-QU 160-FA Engine Cover - ARÇ

Test Method	Result	Requirements
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1. Heavy metals after total digestion in %

Test method: ICP OES DIN EN ISO 11885 (E22)
 Plastic and metal: two stage digestion: cont. HNO₃ + H₂O₂, inverse aqua regia solution
 Plastic: microwave digestion (HNO₃)
 Metal: aqua regia solution: US EPA 3052
 Detection Limit: 0.01%

Parameter	Sample
Lead (Pb)	Not Detected
Cobalt (Co)	Not Detected
Arsenic (As)	Not Detected
Chromium (Cr)	Not Detected
Strontium (Sr)	Not Detected
Boron (B)	Not Detected
Calcium (Ca)	Not Detected
Potassium (K)	Not Detected
Molybdenum (Mo)	Not Detected
Sodium (Na)	Not Detected
Zinc (Zn)	Not Detected

2. Chromium VI in %

Test method: Plastic and composite material: alkaline extraction according to IEC 62321:2008
 Textile: Extraction with acid sweat solution according to BS EN ISO 105-E04:1996, detection by ICP OES
 Leather: BS EN ISO 17075:2007 with UV-VIS Detection
 Metal: boiling water extraction according to IEC 62321:2008
 Detection Limit: 0.001%

Parameter	Sample
Chromium VI	Not Detected



Test Method	Result	Requirements
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Regarding point 1 and 2, the following concentrations result for the listed SVHCs

Substance	CAS-No.	Sample
Cobalt dichloride	7646-79-9	<0.1%
Diarsenic pentaoxide	1303-28-2	<0.1%
Diarsenic trioxide	1327-53-3	<0.1%
Lead hydrogen arsenate	7784-40-9	<0.1%
Triethyl arsenate	15606-95-8	<0.1%
Lead chromate	7758-97-6	<0.1%
C.I. Pigment Red 104	12656-85-8	<0.1%
C.I. Pigment Yellow 34	1344-37-2	<0.1%
Boric Acid	10043-35-3 11113-50-1	<0.1%
Disodium Tetraborate, anhydrous	1330-43-4 12179-04-3 1303-96-4	<0.1%
Tetraboron Disodium Heptaoxide , hydrate	12267-73-1	<0.1%
Sodium chromate	7775-11-3	<0.1%
Potassium chromate	7789-00-6	<0.1%
Ammonium dichromate	7789-09-5	<0.1%
Potassium dichromate	7778-50-9	<0.1%
Sodium dichromate	7789-12-0 / 10588-01-09	<0.1%
Cobalt(II) sulphate	10124-43-3	<0.1%
Cobalt(II) dinitrate	10141-05-6	<0.1%
Cobalt(II) carbonate	513-79-1	<0.1%
Cobalt(II) diacetate	71-48-7	<0.1%
Chromium trioxide	1333-82-0	<0.1%
Acids generated from Chromium trioxide	Chromic acid	<0.1%
	Dichromic acid	<0.1%
	Oligomers of chromic acid and dichromic acid	<0.1%
Strontium chromate	7789-06-2	<0.1%
Dichromium tris (chromate)	24613-89-6	<0.1%
Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	<0.1%
Pentazinc chromate octahydroxide	49663-84-5	<0.1%
Arsenic acid	7778-39-4	<0.1%
Calcium arsenate	7778-44-1	<0.1%
Trilead diarsenate	3687-31-8	<0.1%
Lead azide, Lead diazide	13424-46-9	<0.1%
Lead styphnate	15245-44-0	<0.1%
Lead dipicrate	6477-64-1	<0.1%
Lead(II) bis(methanesulfonate)	17570-76-2	<0.1%
Diboron trioxide	1303-86-2	<0.1%

Calculated for the whole product the detected amount in % is:

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Test Method	Result	Requirements
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3. Organic substances, in %

Test Equipment : GC-MS / HPLC / GC-ECD Detection Limit : 0.02%; Anthracene: 0.0002%

Substance	CAS-No.	Sample
Anthracene	120-12-7	
4,4'- Diaminodiphenylmethane	101-77-9	
Dibutylphthalate (DBP)	84-74-2	
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	
Hexabromocyclododecane (HBCDD)	25637-99-4 3194-55-6	
Short chain chloroparaffins C ₁₀ -C ₁₃	85535-84-8	
Tributyl tin oxide	56-35-9	
Benzylbutylphthalate (BBP)	85-68-7	
2,4-Dinitrotoluene	121-14-2	
Diisobutylphthalate (DIBP)	84-69-5	
Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	
Acrylamide	79-06-1	
Trichloroethylene	79-01-6	
2-Methoxyethanol	109-86-4	
2-Ethoxyethanol	110-80-5	
1,2,3-Trichloropropane	96-18-4	
1-Methyl-2-pyrrolidone	872-50-4	
Hydrazine	302-01-2 / 7803-57-8	
2-Ethoxyethyl acetate	111-15-9	
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	Referring to the sample, no test for the organic substances are necessary
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) (Analytically determined via the concentrations of diheptyldinonyl- and diundecylphthalate)	68515-42-4	
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	
2-Methoxyaniline; o-Anisidine	90-04-0	
4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	
1,2-Dichloroethane	107-06-2	
Bis(2-methoxyethyl) ether	111-96-6	
N,N-dimethylacetamide (DMAC)	127-19-5	
2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	
Phenolphthaleine	77-09-8	
[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	



Test Method	Result	Requirements
α , α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	Referring to the sample, no test for the organic substances are necessary
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	
[4-[[4-anilino-1-naphthyl]]4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	
Formamide	75-12-7	

Anthracene oils and anthracene pastes (Analytically determined via the concentration of anthracene)	90640-80-5 / 91995-17-4 / 91995-15-2 / 90640-82-7 / 90640-81-6	Referring to the sample, no test for the organic substances are necessary
Coal tar (Analytically determined via the concentration of the sum of the 12 polycyclic aromatic hydrocarbons)	65996-93-2	Referring to the sample, no test for the organic substances are necessary

Calculated for the whole product the detected amount in % is:

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4. Ceramic fibers

Substances	CAS-No.	Sample
Aluminosilicate	--	Not Detected
Zirconia aluminosilicate	--	Not Detected
Aluminosilicate Refractory Ceramic Fibres (RCF)	--	Not Detected
Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)	--	Not Detected

END OF TEST REPORT