



Test Report

Number: SZHH01092017S1

Applicant: DONGGUAN LIYANG TOYS LTD.
Floor 3, Building 2, Daxingwei Industry
Xianxi, Wusha, Changan Town,
Dongguan City, Guangdong Province

Date: Mar 17, 2017

Attn: 陈效

This is to supersede Report No. SZHH01092017 dated Oct 20, 2016

Sample Description:

Two (2) pieces of submitted sample said to be :

- Item Name : **X5 Plus.**
- Item No. : **BL-16863.**
- Reference No. : **BL-16873, BL-13803, BL-56203, BL-14013, BL-26753, BL-13013, BL-92013, BL-52203, BL-60703, BL-60793, bl-26753, bl-57553, bl-57563, bl-58703, BL-71853, BL-71893, BL-52393, BL-52403, BL-56113, BL-55113, BL-52303, BL-52306.**

Applicant Specified Age : Adult.

Grading for Testing

Date Sample Received : Sep 12, 2016.



Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

To be continued

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.

Ben N.L. Lin
General Manager



Intertek Testing Services Shenzhen Ltd.- Hardlines

深圳天祥质量技术服务有限公司-轻工产品事业部

301A, 302B, 6/F. 7/F Shekou Technology Main Bldg. and Room 1E of Nanshan Building,

Nanhai Ave., Nanshan District, Shenzhen, China

深圳市南山区南海大道科技大厦 301A、302B、六层、七层、南山大厦 1 楼 1E 房

Tel: (86-755) 2602 0111 Fax: (86-755) 2683 7118/9 Postcode: 518067

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Attention is drawn to the terms and conditions printed overleaf.



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Conclusion:

<u>Tested Sample</u>	<u>Standard</u>	<u>Result</u>
Submitted samples	EU REACH Regulation No 1907/2006 Article 33(1) Obligation to provide information of safe use (see REACH requirement in report for details)	Meet requirement
Tested components of submitted samples	Consent Judgment No. RG- 356892 for total Lead content based on the California Proposition 65	See Test Conducted

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General Manager



Tests Conducted

1 (I) SVHC Testing Results

By Inductively Coupled Plasma Optical Emission Spectrometry, Ion Chromatography, UV-Visible Spectrophotometry, Gas Chromatographic - Mass Spectrometry, Liquid Chromatographic - Mass Spectrometry and High Performance Liquid Chromatography analysis.

Chemical Substance	Results % (w/w)			
	Tested groups			Whole product
	(1)	(2)	(3)	
Bis (2-Ethylhexyl) Phthalate (DEHP)	0.077	ND	ND	0.073
Other tested SVHCs in Chemical list	ND			ND

SVHC = Substance of very high concern

ND = Not detected

Reporting limit = 0.050%

Δ = Determination was based on elemental analysis. The content was calculated based on assumption of worst-case.

SVHC Chemical list:

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
1	Cobalt Dichloride Δ	7646-79-9	85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5
2	Diarsenic Pentaoxide Δ	1303-28-2	86	Pentacosaflluorotridecanoic acid	72629-94-8
3	Diarsenic Trioxide Δ	1327-53-3	87	Tricosaflluorododecanoic acid	307-55-1
4	Lead Hydrogen Arsenate Δ	7784-40-9	88	Henicosaflluoroundecanoic acid	2058-94-8
5	Triethyl Arsenate Δ	15606-95-8	89	Heptacosaflluorotetradecanoic acid	376-06-7
6	Sodium Dichromate Δ	7789-12-0, 10588-01-9	90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3

Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
7	Bis (Tributyltin) Oxide (TBTO) Δ	56-35-9	91	Cyclohexane-1,2-dicarboxylic anhydride [1] cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry].	85-42-7 13149-00-3 14166-21-3
8	Anthracene	120-12-7	92	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans-stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0 19438-60-9 48122-14-1 57110-29-9



Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
9	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	93	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	--
10	Hexabromocyclodecane (HBCDD) and All Major Diastereoisomers Identified (α -HBCDD, β -HBCDD, γ -HBCDD)	25637-99-4 and 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)	94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	--
11	5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)	81-15-2	95	Methoxyacetic acid	625-45-6
12	Bis (2-Ethylhexyl) Phthalate (DEHP)	117-81-7	96	N,N-dimethylformamide	68-12-2
13	Dibutyl Phthalate (DBP)	84-74-2	97	Dibutyltin dichloride (DBTC) Δ	683-18-1
14	Benzyl Butyl Phthalate (BBP)	85-68-7	98	Lead monoxide (Lead oxide) Δ	1317-36-8
15	Short Chain Chlorinated Paraffins (C ₁₀₋₁₃)	85535-84-8	99	Orange lead (Lead tetroxide) Δ	1314-41-6
16	Lead Chromate Δ	7758-97-6	100	Lead bis(tetrafluoroborate) Δ	13814-96-5
17	Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) Δ	12656-85-8	101	Trilead bis(carbonate)dihydroxide Δ	1319-46-6

Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
18	Lead Sulfochromate Yellow (C.I. Pigment Yellow 34) Δ	1344-37-2	102	Lead titanium trioxideΔ	12060-00-3
19	Tris (2-Chloroethyl) Phosphate	115-96-8	103	Lead titanium zirconium oxideΔ	12626-81-2
20	2,4-Dinitrotoluene	121-14-2	104	Silicic acid, lead salt Δ	11120-22-2
21	Diisobutyl Phthalate (DIBP)	84-69-5	105	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-dopedΔ [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	68784-75-8
22	Coal Tar Pitch, High Temperature	65996-93-2	106	1-bromopropane (n-propyl bromide)	106-94-5
23	Anthracene Oil	90640-80-5	107	Methyloxirane (Propylene oxide)	75-56-9
24	Anthracene Oil, Anthracene Paste, Distr. Lights	91995-17-4	108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0
25	Anthracene Oil, Anthracene Paste, Anthracene Fraction	91995-15-2	109	Diisopentylphthalate (DIPP)	605-50-5
26	Anthracene Oil, Anthracene-low	90640-82-7	110	N-pentyl-isopentylphthalate	776297-69-9
27	Anthracene Oil, Anthracene Paste	90640-81-6	111	1,2-diethoxyethane	629-14-1
28	Acrylamide	79-06-1	112	Acetic acid, lead salt, basicΔ	51404-69-4
29	Boric Acid Δ	10043-35-3, 11113-50-1	113	Lead oxide sulfateΔ	12036-76-9



Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
30	Disodium Tetraborate, Anhydrous Δ	1330-43-4, 12179-04-3, 1303-96-4	114	[Phthalato(2-)]dioxotrileadΔ	69011-06-9
31	Tetraboron Disodium Heptaoxide, Hydrate Δ	12267-73-1	115	Dioxobis(stearato)trileadΔ	12578-12-0
32	Sodium Chromate Δ	7775-11-3	116	Fatty acids, C16-18, lead saltsΔ	91031-62-8
33	Potassium Chromate Δ	7789-00-6	117	Lead cyanamidateΔ	20837-86-9
34	Ammonium Dichromate Δ	7789-09-5	118	Lead dinitrateΔ	10099-74-8
35	Potassium Dichromate Δ	7778-50-9	119	Pentalead tetraoxide sulphateΔ	12065-90-6
36	Trichloroethylene	79-01-6	120	Pyrochlore, antimony lead yellowΔ	8012-00-8
37	2-Methoxyethanol	109-86-4	121	Sulfurous acid, lead salt, dibasicΔ	62229-08-7
38	2-Ethoxyethanol	110-80-5	122	TetraethylleadΔ	78-00-2
39	Cobalt Sulphate Δ	10124-43-3	123	Tetralead trioxide sulphateΔ	12202-17-4
40	Cobalt Dinitrate Δ	10141-05-6	124	Trilead dioxide phosphonateΔ	12141-20-7
41	Cobalt Carbonate Δ	513-79-1	125	Furan	110-00-9
42	Cobalt Diacetate Δ	71-48-7	126	Diethyl sulphate	64-67-5
43	Chromium Trioxide Δ	1333-82-0	127	Dimethyl sulphate	77-78-1
44	Chromic Acid Δ Dichromic Acid Δ Oligomers of Chromic Acid and Dichromic Acid Δ	7738-94-5 13530-68-2 --	128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2
45	Strontium ChromateΔ	7789-06-2	129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7
46	2-ethoxyethyl acetate (2-EEA)	111-15-9	130	4,4'-methylenedi-o-toluidine	838-88-0
47	1,2-Benzenedicarboxylic acid, di-C ₇₋₁₁ -branched and linear alkyl esters (DHNUP)	68515-42-4	131	4,4'-oxydianiline and its salts	101-80-4
48	Hydrazine	7803-57-8 302-01-2	132	4-aminoazobenzene	60-09-3



Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
49	1-methyl-2-pyrrolidone	872-50-4	133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7
50	1,2,3-trichloropropane	96-18-4	134	6-methoxy-m-toluidine (p-cresidine)	120-71-8
51	1,2-Benzenedicarboxylic acid, di-C ₆₋₈ -branched alkyl esters, C ₇ -rich (DIHP)	71888-89-6	135	Biphenyl-4-ylamine	92-67-1
52	Lead dipicrate Δ	6477-64-1	136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3
53	Lead styphnate Δ	15245-44-0	137	o-toluidine	95-53-4
54	Lead azide; Lead diazide Δ	13424-46-9	138	N-methylacetamide	79-16-3
55	Phenolphthalein	77-09-8	139	Cadmium Δ	7440-43-9
56	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	140	Cadmium oxide Δ	1306-19-0
57	N,N-dimethylacetamide (DMAC)	127-19-5	141	Dipentyl phthalate (DPP)	131-18-0
58	Trilead diarsenate Δ	3687-31-8	142	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	--
59	Calcium arsenate Δ	7778-44-1	143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1



Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
60	Arsenic acid Δ	7778-39-4	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1
61	Bis(2-methoxyethyl) ether	111-96-6	145	Cadmium sulphide Δ	1306-23-6
62	1,2-Dichloroethane	107-06-2	146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0
63	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	147	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7
64	2-Methoxyaniline; o-Anisidine	90-04-0	148	Dihexyl phthalate (DnHP)	84-75-3
65	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7
66	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	150	Lead di(acetate) Δ	301-04-2
67	Pentazinc chromate octahydroxide Δ	49663-84-5	151	Trixylyl phosphate	25155-23-1
68	Potassium hydroxyoctaoxodizincate di-chromate Δ	11103-86-9	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (Diisohexyl phthalate(DIHP))	68515-50-4
69	Dichromium tris(chromate) Δ	24613-89-6	153	Cadmium chloride Δ	10108-64-2
70	Aluminosilicate Refractory Ceramic Fibres Δ	(Index No. 650-017-00-8)	154	Sodium perborate; perboric acid, sodium salt Δ	--



Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
71	Zirconia Aluminosilicate Refractory Ceramic Fibres Δ	(Index No. 650-017-00-8)	155	Sodium peroxometaborateΔ	7632-04-4
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	157	2-benzotriazol-2-yl-4,6-ditert-butylphenol (UV-320)	3846-71-7
74	Diboron trioxideΔ	1303-86-2	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1
75	Formamide	75-12-7	159	Cadmium fluorideΔ	7790-79-6
76	Lead(II) bis(methanesulfonate) Δ	17570-76-2	160	Cadmium sulphateΔ	10124-36-4; 31119-53-6
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	15571-58-1; 27107-89-7
78	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1

Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	117933-89-8
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	164	Nitrobenzene	98-95-3
81	[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	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3

Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
83	α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	167	1,3-propanesultone	1120-71-4
84	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	168	Perfluorononan-1-oi-c-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4
--	--	--	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8

As applicant's requirement, materials were screened in composite testing and results were reported in proportion with the whole product weight.

(II) Tested groups:

- (1) Plastic material
- (2) Magnet material
- (3) Metal material



Test Report

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Tests Conducted

Notes:

Substances of very high concern (SVHC) are classified as:
Carcinogenic, mutagenic or toxic to reproduction category 1 (proven on humans) and category 2 (proven on animals)

Persistent, bioaccumulative and toxic chemicals (PBT)

Very persistent and very bioaccumulative chemicals (vPvB)

Other similar substances such as endocrine disrupters

If the imported or manufactured volume of each individual SVHC in article is more than 0.1% (w/w) and if it exceeds 1 tonne per year across all product ranges, then importer or manufacturer require notification to the European Chemical Agency (ECHA). For substances included in the Candidate List on or after 1 December 2010, the notifications have to be submitted no later than 6 months after the inclusion. The following information has to be submitted for notification:

Identification of the registrant and the substance

Classification and labelling of the substance

Description of use of the substance and the article

Registration number, if available

Tonnage range

REACH requirement:

As per article 33(1) of regulation (EC) No. 1907/2006 (REACH), recipients of product must be provided with information of safe use if any of the tested substances (SVHC) exceeded 0.1% (w/w). A product meets the requirement of article 33(1) by default when no SVHC exceeds 0.1% (w/w).



Intertek Testing Services Shenzhen Ltd.- Hardlines

深圳天祥质量技术服务有限公司-轻工产品事业部

301A, 302B, 6/F. 7/F Shekou Technology Main Bldg. and Room 1E of Nanshan Building,

Nanhai Ave., Nanshan District, Shenzhen, China

深圳市南山区南海大道科技大厦 301A、302B、六层、七层、南山大厦 1 楼 1E 房

Tel: (86-755) 2602 0111 Fax: (86-755) 2683 7118/9 Postcode: 518067

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Tests Conducted

2 Total Lead Content

Acid digestion method was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (mg/kg) θ	Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(10)		
Lead (Pb)	ND	10	90

Element	Result (mg/kg) θ	Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(1+2+3),(4+5+6),(7+8+9)		
Lead (Pb)	ND	10	100

The above limit was referred to the Consent Judgment No. RG- 356892 settled by superior court of the State of California for the county of Alameda, for toys based on the California Proposition 65.

ND = Not detected
 θ = Single result for each test component/group

Tested Components

- (1) Flesh color plastic (body).
- (2) Flesh color plastic (joint of body).
- (3) Semi-transparent plastic (ring).
- (4) Black plastic (upper of base).
- (5) Black plastic (lower of base).
- (6) Black plastic excluding coating (adjust ring).
- (7) Silver color metal (battery contact plate).
- (8) Gold color metal (eyelet of battery box).
- (9) Silver color metal (spring of battery box).
- (10) Bright silver color coating on plastic (adjust ring).

End of report

This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct.





To: DONGGUAN LIYANG TOYS LTD.

Attention: 陈效

Date: Mar 17, 2017

Re : Report Revision Notification

Intertek Testing Services Report Number SZHH01092017 Dated Oct 20, 2016

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Intertek Testing Services Report, SZHH01092017S1.

Thank you for your attention.

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.

Ben N.L. Lin
General Manager

Intertek Testing Services Shenzhen Ltd.- Hardlines

深圳天祥质量技术服务有限公司-轻工产品事业部

301A, 302B, 6/F. 7/F Shekou Technology Main Bldg. and Room 1E of Nanshan Building,

Nanhai Ave., Nanshan District, Shenzhen, China

深圳市南山区南海大道科技大厦 301A、302B、六层、七层、南山大厦 1 楼 1E 房

Tel: (86-755) 2602 0111 Fax: (86-755) 2683 7118/9 Postcode: 518067

www.intertek.com www.intertek.com.cn China Toll-Free:400 886 9926

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