

No.: HKHL1501003814JL-01

Date: FEB 09, 2015

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NEW LEADER BATTERY LTD.

FLAT A, 4/F, BLOCK 1, CAMELPAINT BUILDING, 62 HOI YUEN ROAD, KWUN TONG, KOWLOON, HONG **KONG**

This report supersedes all previous documents bearing the test report number HKHL1501003814JL

The following samples were submitted and identified on behalf of the client as:

ALKALINE MERCURY FREE BUTTON CELL

G13/ LR44/ 357/ A76

G12/ LR43/ 386/ 186

G11/ LR721/ 362/ 162

G9/ LR936/ 394/ 194

G8/ LR1120/ 391/ 191

G7/ LR927/ 395/ 195

G6/ LR920/ 371/ 171

G5/ LR754/ 393/ 193

G4/ LR626/ 392/ 192

G2/ LR727/ 396/ 196

G1/ LR621/ 364/ 164

LR732

LR932

LR44 (EXP)

LR44 (HG. PB)

SGS Case No.

HKHL150100002351

Style / Item No.

NL 0.%HG LR44

Sample Receiving Date

JAN 20, 2015

Test Performing Date

JAN 20 - FEB 02, 2015

Test Requested

: Please refer to the result summary.

Test Method & Results

Please refer to next page(s).

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Result Summary

Tes	st Requested	Conclusion	
1.	European Directive 2006/66/EC and its amendments –	PASS	
	Lead, Cadmium and Mercury Content (Selected part as specified by client)		
2.	US Public Law No 104-142 (1996) Title II – Mercury-Containing Battery Management Act –	PASS	
	Mercury Content (Selected part as specified by client)		
3.	Mercury requirement in compliance with various USA States requirement (Selected part as specified by client)	PASS	
4.	Cadmium, Lead, Mercury, Hexavalent Chromium, Polybromobiphenyl (PBB) and Polybromodiphenyl ether (PBDE) content (As per client's request) (Selected part as specified by client)	PASS	

Signed for and on behalf of SGS Hong Kong Ltd.

Che Wai Leuk, Jerry Section Manager

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Test Results

1. European Directive 2006/66/EC and its amendments - Lead, Cadmium and Mercury Content

Method : Acid digestion followed by Atomic Absorption Spectrometry analysis.

For button cells:

Test Item	Result (%)	Reporting Limit (%)	Labelling requirement (%)	Permissible Limit (%)
Lead (Pb)	ND	0.001	> 0.004	
Cadmium (Cd)	ND	0.001	> 0.002	0.002
Mercury (Hg)	ND	0.0001	> 0.0005	2
Comment	PASS			

Sample Description:

1. ALKALINE MERCURY FREE BUTTON CELL (NL 0.%HG LR44)

Note: 1. % = percentage by weight

2. > = greater than

3. ND = Not Detected

2. US Public Law No 104-142 (1996) Title II – Mercury-Containing Battery Management Act – Mercury Content

Method : Acid digestion followed by Atomic Absorption Spectrometry analysis.

For battery except alkaline manganese button cell:

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Requirement
Mercury (Hg)	ND	1	Prohibited
Comment	PASS		

Sample Description:

1. ALKALINE MERCURY FREE BUTTON CELL (NL 0.%HG LR44)

Note: 1. mg/cell = milligram per cell

mg/kg = milligram per kilogram

3. ND = Not Detected

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Test Results (Cont'd)

Mercury requirement in compliance with various USA States requirement

Test Item	Result (mg/kg) 1	Reporting Limit (mg/kg)	Requirement
Mercury (Hg)	ND	1	Prohibited
Comment	PASS		

State	Act/Regulation	Scope	Requirement	Effective date
Connecticut	Public Act 06-181 (HB 5446, 2006)	Button cell batteries containing mercury	Prohibited	July 1, 2011
Maine	Public Law, Chapter 86 (LD 1026, 124th Maine State Legislature)	Mercury-added button cell batteries	Prohibited	July 1, 2011
Rhode Island	H 6396, Chapter 387 (2007)	Mercury-added button cell batteries	Prohibited	July 1, 2011

Sample Description:

ALKALINE MERCURY FREE BUTTON CELL (NL 0.%HG LR44)

- Note: 1. mg/cell = milligram per cell
 - 2. mg/kg = milligram per kilogram
 - 3. ND = Not Detected

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Test Results (Cont'd)

4. Cadmium, Lead, Mercury, Hexavalent Chromium, Polybromobiphenyl (PBB) and Polybromodiphenyl ether (PBDE) content (As per client's request)

Method: With reference to IEC 62321:2008, IEC 62321-4:2013, IEC62321-5:2013. Lead, Cadmium and Mercury were analyzed by Inductively Coupled Argon Plasma Spectrometry, Chromium (VI) was analyzed by UV-Visible Spectroscopy and PBB, PBDE were analyzed by Gas Chromatography – Mass Spectrometry (GC-MS).

Test Item		Result (mg/kg)	Reporting	Permissible
rest item		1	Limit (mg/kg)	Limit (mg/kg)
Cadmium	(Cd)	ND	5	100
Lead	(Pb)	ND	5	1000
Mercury	(Hg)	ND	5	1000
Hexavalent Chromiu by spot test / boilin water extraction		Negative	#	#
Sum of PBBs		ND		1000
Monobromobiphenyl		ND	5	
Dibromobiphenyl		ND	5	
Tribromobiphenyl		ND	5	
Tetrabromobiphenyl		. ND	5	
Pentabromobiphenyl		ND	5	
Hexabromobiphenyl		ND	5	
Heptabromobiphenyl		ND	5	
Octabromobiphenyl		ND	5	
Nonabromobiphenyl		ND	5	
Decabromobiphenyl		ND	5	
Sum of PBDEs		ND		1000
Monobromodiphenyl e	ether	ND	5	
Dibromodiphenyl ethe	er	ND	5	
Tribromodiphenyl ethe	er	ND	5	
Tetrabromodiphenyl e	ether	ND	5	
Pentabromodiphenyl	ether	ND	5	
Hexabromodiphenyl ether		ND	5	
Heptabromodiphenyl ether		ND	5	
Octabromodiphenyl ether		ND	5	
Nonabromodiphenyl ether		ND	5	
Decabromodiphenyl ether		ND	5	
Comment		PASS		

Sample Description:

1. ALKALINE MERCURY FREE BUTTON CELL (NL 0.%HG LR44)

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Test Results (Cont'd)

Note: 1. mg/kg = milligram per kilogram

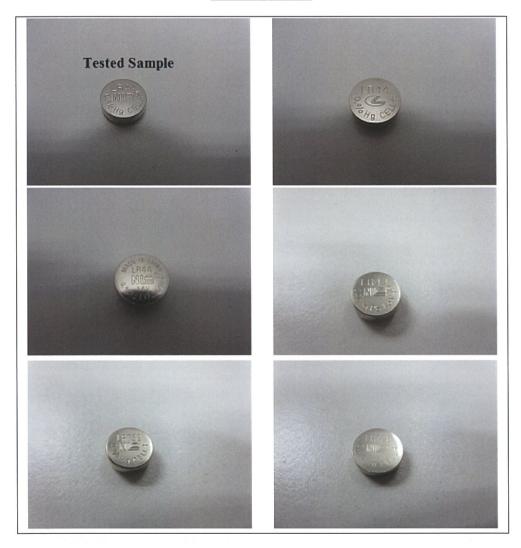
2. ND = Not Detected

Remark: 1.# = Negative means the absence of CrVI on the tested areas; Positive means the presence of

CrVI on the tested areas. The detected CrVI concentration in the boiling-water-extraction solution

is equal to or greater than 0.02 mg/kg with 50cm² sample surface area.

Photo Appendix



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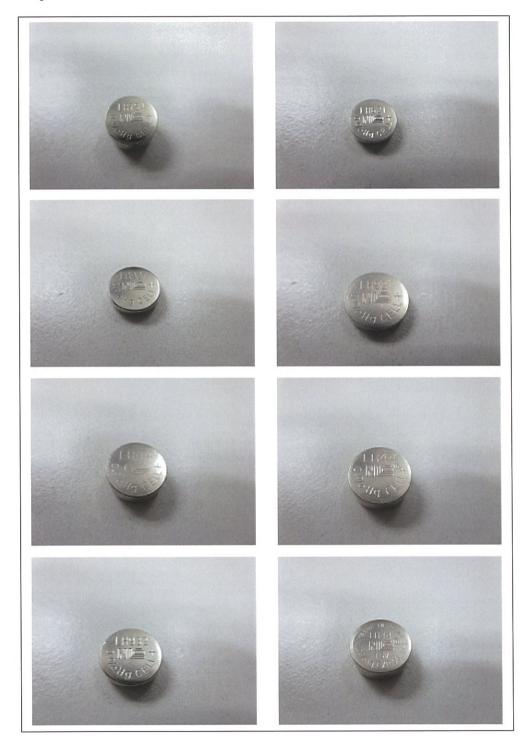
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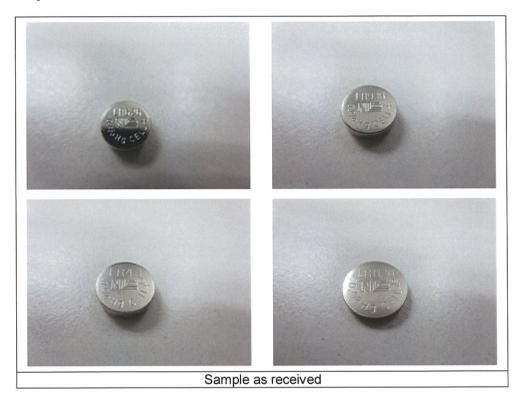
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*** End of Report ***

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