



Test Report

No. 2169139/JL

Date : May 11 2010

Page 1 of 4

NEW LEADER BATTERY IND. LTD.
FLAT A, 4/F, BLOCK 1, CAMELPAINT BUILDING,
62 HOI YUEN ROAD, KWUN TONG,
KOWLOON, HONG KONG

The following sample was submitted and identified on behalf of the client as R03P AAA SIZE 1.5V 0%HG 0%PB EXTRA HEAVY DUTY BATTERY.

SGS Job No. : 3446496
Sample Receiving Date : MAY 07 2010
Testing Period : MAY 07 – 11 2010

Test Requested : Please refer to the result summary.

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

Result Summary :

Test Requested	Conclusion
1. European Directive 2006/66/EC and its amendments – Lead, Cadmium and Mercury Content	PASS
2. US Public Law No 104-142 (1996) Title II – Mercury-Containing Battery Management Act – Mercury Content	PASS
3. Cadmium, Lead, Mercury, Hexavalent Chromium, Polybromobiphenyl (PBB) and Polybromodiphenyl ether (PBDE) content (As per client's request)	--

Signed for and on behalf of
SGS Hong Kong Ltd.

Chan Yu Yan, Cyrus
Section Manager

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

H21110364

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
SGS Hong Kong Ltd. 5/F - 8/F, 12/F & 28/F - 29/F, Metropole Square, 2 On Yiu Street, Siu Lek Yuen, Shatin, N.T., Hong Kong. t (852) 2334 4481 f (852) 2764 3126 www.hk.sgs.com



Test Report

No. 2169139/JL

Date : May 11 2010 Page 2 of 4

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 portable batteries:

Test Item	Result (%)	Detection Limit (%)	Labelling requirement (%)	Permissible Limit (%)
	1			
Lead (Pb)	ND	0.001	> 0.004	--
Cadmium (Cd)	ND	0.001	> 0.002	0.002 ^{##}
Mercury (Hg)	ND	0.0001	> 0.0005	0.0005
Comment	PASS	--	--	--

Sample Description :

- R03P AAA SIZE 1.5V 0%HG 0%PB EXTRA HEAVY DUTY BATTERY

- Note :
- % = percentage by weight
 - > = greater than
 - ^{##} = Not applicable to portable batteries and accumulators intended to use in emergency and alarm systems, medical equipments and cordless power tools.
 - 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)	Detection Limit (mg/kg)	Requirement
	1		
Mercury (Hg)	ND	1	Absent
Comment	PASS	--	--

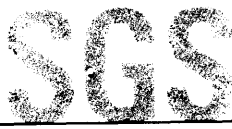
Sample Description :

- R03P AAA SIZE 1.5V 0%HG 0%PB EXTRA HEAVY DUTY BATTERY

- Note :
- mg/kg = milligram per kilogram
 - ND = Not Detected

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

H21110365



Test Report

No. 2169139/JL

Date : May 11 2010

Page 3 of 4

Test Results (Cont'd) :

3) Cadmium, Lead, Mercury, Hexavalent Chromium, Polybromobiphenyl (PBB) and Polybromodiphenyl ether (PBDE) content

Method : With reference to IEC 62321:2008. 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)		Detection Limit (mg/kg)	Reference Limit (mg/kg)
	1			
Cadmium (Cd)	ND		5	100
Lead (Pb)	5		5	1000
Mercury (Hg)	ND		5	1000
Hexavalent Chromium (Cr(VI))	ND		5	1000
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 ether	ND		5	--
Dibromodiphenyl ether	ND		5	--
Tribromodiphenyl ether	ND		5	--
Tetrabromodiphenyl 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		--	--

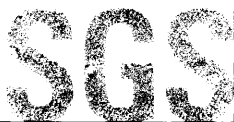
Sample Description :

- R03P AAA SIZE 1.5V 0%HG 0%PB EXTRA HEAVY DUTY BATTERY

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of the Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

H21110366

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 SGS Hong Kong Ltd. 5/F - 8/F, 12/F & 20/F, Metropole Square, 2 On Yiu Street, Siu Lek Yuen, Shatin, N.T., Hong Kong. t (852) 2334 4481 f (852) 2764 3126 www.hk.sgs.com



Test Report

No. 2169139/JL

Date : May 11 2010

Page 4 of 4

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

Remark : 1. Reference limits are quoted from European Directive 2002/95/EC (RoHS) and its subsequent amendments.
2. ## = The exemption of DecaBDE in polymeric application according 2005/717/EC was overruled by the European Court of Justice by its decision of 01.04.2008. Subsequently DecaBDE will be included in the sum of PBDE after 01.07.2008.

*** End of Report ***

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

SGS Hong Kong Ltd. | 5/F - 8/F, 12/F & 28/F - 29/F, Metropole Square, 2 On Yiu Street, Siu Lek Yuen, Shatin, N.T., Hong Kong. t (852) 2334 4481 f (852) 2764 3126 www.hk.sgs.com

H21110367