

UN 38.3 Test Summary Report

Lithium Cell or Battery Test Summary in Accordance with Section 2.9.4 UN Model Regulations and Sub-section 38.3 of the UN Manual of Tests and Criteria, Part III, subsection 38.3.5

[a] ☒ Cell ☐ Battery ☐ Product
☒ **Tested Type Part** 03577R
☒ **Same Type Part #** see list

[b] **Manufacturer**
 Saft Civil Electronics Division
 Saft SAS
 Rue Georges Leclanché, BP1039
 86000 Poitiers
 T. +33 (0) 5. 49 55 48.48
 Lithiumsales.fr@saftbatteries.com
 https://www.saftbatteries.com

[d] Unique report ID: LSH20 12-2018-3

[e] Report date: 2015.12.08

[c] **Test Laboratory**
 Saft Civil Electronics Division
 Saft SAS
 Rue Georges Leclanché, BP1039
 86000 Poitiers
 T. +33 (0) 5. 49 55 48.48
 Lithiumsales.fr@saftbatteries.com
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☒ **Same Type Part Numbers # (all):** 03576N, 03749V, 04084Z, 04488N, 04659S, 05041T, 05226L, 05251M, 05339D, 05367H, 05496S, 05508E, 05564N, 05978U, 06039H, 06064J, 06085F, 06206G, 06231H, 06279H, 06317X, 06328J, 06489B, 60086Q
 Same P/N beginning by 59-xxxxx (e.g: 59-03576N) are of the same tested type

[f] (i) ☐ Li-ion ☒ Li-metal.

(iv) **Description:** Primary D-sized spiral cell with a 5A protection fuse

(ii) Mass: 96 g

(iii) ☐ Watt hour rating or ☒ Lithium content: 3.84 g.

(v) ☒ Cell ☐ Battery ☐ Product. Model number/Part number: LSH20

[g] List of Tests Conducted

Result (Pass / Fail / N.A.)

Test record reference

38.3.4.1 T.1: Altitude simulation	Pass	T0340-14
38.3.4.2 T.2: Thermal test	Pass	T0340-14
38.3.4.3 T.3: Vibration	Pass	T0340-14
38.3.4.4 T.4: Shock	Pass	T0340-14
38.3.4.5 T.5: External short circuit	Pass	T0340-14
38.3.4.6 T.6: Impact/Crush (cell only test)	Pass	T0340-14
38.3.4.7 T.7: Overcharge (N.A for Li-metal only)	NA	NA
38.3.4.8 T.8: Forced discharge (cell only test)	Pass	T0340-14

[h] Battery assembly: ☒ Not Applicable. ☐ UN38.3.3 (f) ☐ UN38.3.3 (g)

[i] Test Reference: UN Manual of Tests and Criteria, Part III, sub-section 38.3 ST/SG/AC.10/11/Rev.5

[j] Signatory A. Date: 2019.06.27

Name: Cristophe Serre

Title: Quality Mgr – C.E. Div- Poitiers site

Signature:

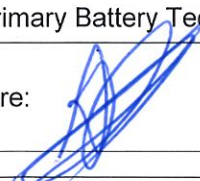



[j] Signatory B. Date: 2019.06.27

Name: Antoine Derouet

Title: Primary Battery Technical Manager

Signature:



Important! The above signatory / signatories affirm that this document is a true and correct summary of the original individual tests and test data. The original test data is confidential information available to competent State Authorities with valid identification and only upon their formal request. Disclosure of the original test data to any other entity upon its request will be considered by Saft and, should Saft consider this request is with merit, may be subject to the prior execution of a nondisclosure agreement.