**SCREENING REPORT** Page: 1

**Test Number:** 14856-00  **Report Date:** 2021-03-05

**Battery Name:** UHE-ER34615-H

**Chemistry:** Li/SOCl₂

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**Request Number:** 201027-1

**Task Number:** 12735

**Lot Number:** 12779

**Form Factor:** Cylindrical

**Purpose:** Evaluation Screening

**Project Engineer:** JRK

Criteria:Profile One Min.Profile TwoMin.

**OCV (Volt):** 3.633.63

**CCV (Volt):** 32.0

**Drain Time (Sec):** 51

**Resistor (Ω): :** 184400

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**Battery Size (mm):** D (Cylinder)

**Discharge Temperature (°C):** 24

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**Number of Batteries Tested :** 72

**Number of Batteries Failed(\*):** 0

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**Date of Manufacture:** 8/15/2020

**Date of Receipt:** 9/24/2020

**Date Started:** 12/11/2020

**Date Completed:**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Prepared By: \_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_ Reviewed By: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_

Reviewed By: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_

**Test Number:** 14856-00

Note(s):  
  
1. Report Date:  
  
2. Test Responsibility:  
   
 a. Data file preparation:  
 b. Technical review:  
 c. Final review:

**SCREENING REPORT**

**Test Number:** 14856-00  **Date:**2021-03-04

**Sample Name:** UHE-ER34615-H

**Chemistry:** Li/SOCl₂

**Profile Two** **Voltage Statistic Table**

All samples OCV CCV

**Maximum:** **3.682** **3.581**

**Minimum:** **3.667** **3.164**

**Median:** **3.678** **3.517**

**Mean (M):** **3.678** **3.493**

**Stander Deviation (SD):** **0.0026** **0.07179**

**Total Samples:** **72** **72**

**Total Passing Criterion:** **72** **72**

**Total Failing Criterion:** **0** **0**

**95%** **confidence Interval (Min/Max)** **3.677/3.678** **3.476/3.510**

**Total Samples Outside Range:** **3** **7**

**OCV >or= 3.630**

**CCV >or= 3.000 @ 184 Ohms for 5 Seconds.**

**CUMULATIVE TABLE**

|  |  |  |  |
| --- | --- | --- | --- |
| **All Sample OCV** | | **All Sample CCV** | |
| Voltage Range | Samples | Voltage Range | Samples |
| 3.682-3.679 | 19 | 3.581-3.538 | 14 |
| 3.679-3.676 | 36 | 3.538-3.495 | 28 |
| 3.676-3.673 | 14 | 3.495-3.452 | 20 |
| 3.673-3.670 | 1 | 3.452-3.409 | 1 |
| 3.670-3.667 | 1 | 3.409-3.366 | 4 |
| 3.667-3.664 | 1 | 3.366-3.323 | 3 |
| 3.664-3.661 | 0 | 3.323-3.280 | 1 |
|  |  | 3.280-3.237 | 0 |
|  |  | 3.237-3.194 | 0 |
|  |  | 3.194-3.151 | 1 |

**SCREENING REPORT**

**Test Number:** 14856-00  **Date:**2021-03-04

**Sample Name:** UHE-ER34615-H

**Chemistry:** Li/SOCl₂

**Profile Two** **Voltage Statistic Table**

All samples OCV CCV

**Maximum:** **3.682** **3.197**

**Minimum:** **3.636** **2.029**

**Median:** **3.678** **2.464**

**Mean (M):** **3.677** **2.476**

**Stander Deviation (SD):** **0.00542** **0.23635**

**Total Samples:** **72** **72**

**Total Passing Criterion:** **72** **72**

**Total Failing Criterion:** **0** **0**

**95%** **confidence Interval (Min/Max)** **3.676/3.679** **2.421/2.532**

**Total Samples Outside Range:** **3** **1**

**OCV >or= 3.630**

**CCV >or= 2.000 @ 400 mA for 1 Seconds.**

**CUMULATIVE TABLE**

|  |  |  |  |
| --- | --- | --- | --- |
| **All Sample OCV** | | **All Sample CCV** | |
| Voltage Range | Samples | Voltage Range | Samples |
| 3.682-3.676 | 57 | 3.197-3.079 | 1 |
| 3.676-3.670 | 13 | 3.079-2.961 | 1 |
| 3.670-3.664 | 1 | 2.961-2.843 | 2 |
| 3.664-3.658 | 0 | 2.843-2.725 | 8 |
| 3.658-3.652 | 0 | 2.725-2.607 | 9 |
| 3.652-3.646 | 0 | 2.607-2.489 | 13 |
| 3.646-3.640 | 0 | 2.489-2.371 | 12 |
| 3.640-3.634 | 1 | 2.371-2.253 | 12 |
|  |  | 2.253-2.135 | 10 |
|  |  | 2.135-2.017 | 4 |

**SCREENING REPORT**

**Test Number:** 14856-00 **Raw Data** **Chemistry:** Li/SOCl₂

**Sample Name:** UHE-ER34615-H **Load:** 184/400Ω

**Sort Order:** Bar Code Number **Load Time:** 5/1Sec(S)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Bar Code Number | Manufacturer  Number | Manufacture Date | Profile 1 OCV | Profile 1 CCV | Profile 2 OCV | Profile 2 CCV | Inspection |
| 465403 |  | 8/15/2020 | 3.677 | 3.522 | 3.677 | 2.381 | Pass |
| 465404 |  | 8/15/2020 | 3.675 | 3.324 \* | 3.675 | 2.869 | Outlier |
| 465405 |  | 8/15/2020 | 3.68 | 3.48 | 3.68 | 2.277 | Pass |
| 465406 |  | 8/15/2020 | 3.675 | 3.436 | 3.68 | 2.239 | Pass |
| 465407 |  | 8/15/2020 | 3.678 | 3.527 | 3.678 | 2.435 | Pass |
| 465408 |  | 8/15/2020 | 3.678 | 3.533 | 3.678 | 2.55 | Pass |
| 465409 |  | 8/15/2020 | 3.677 | 3.503 | 3.677 | 2.423 | Pass |
| 465410 |  | 8/15/2020 | 3.68 | 3.372 \* | 3.636 \* | 2.843 | Outlier |
| 465411 |  | 8/15/2020 | 3.68 | 3.466 | 3.679 | 2.194 | Pass |
| 465412 |  | 8/15/2020 | 3.68 | 3.524 | 3.68 | 2.312 | Pass |
| 465413 |  | 8/15/2020 | 3.68 | 3.529 | 3.679 | 2.071 | Pass |
| 465414 |  | 8/15/2020 | 3.677 | 3.49 | 3.676 | 2.235 | Pass |
| 465415 |  | 8/15/2020 | 3.681 | 3.492 | 3.681 | 2.203 | Pass |
| 465416 |  | 8/15/2020 | 3.68 | 3.517 | 3.68 | 2.2 | Pass |
| 465417 |  | 8/15/2020 | 3.677 | 3.523 | 3.677 | 2.544 | Pass |
| 465418 |  | 8/15/2020 | 3.681 | 3.453 | 3.681 | 3.197 \* | Outlier |
| 465419 |  | 8/15/2020 | 3.678 | 3.542 | 3.678 | 2.585 | Pass |
| 465420 |  | 8/15/2020 | 3.681 | 3.494 | 3.681 | 2.195 | Pass |
| 465421 |  | 8/15/2020 | 3.68 | 3.396 | 3.68 | 2.297 | Pass |
| 465422 |  | 8/15/2020 | 3.674 | 3.517 | 3.674 | 2.444 | Pass |
| 465423 |  | 8/15/2020 | 3.677 | 3.533 | 3.676 | 2.529 | Pass |
| 465424 |  | 8/15/2020 | 3.677 | 3.546 | 3.677 | 2.608 | Pass |
| 465425 |  | 8/15/2020 | 3.677 | 3.471 | 3.677 | 2.46 | Pass |
| 465426 |  | 8/15/2020 | 3.679 | 3.468 | 3.679 | 2.123 | Pass |
| 465427 |  | 8/15/2020 | 3.679 | 3.532 | 3.678 | 2.493 | Pass |
| 465428 |  | 8/15/2020 | 3.676 | 3.572 | 3.676 | 2.362 | Pass |
| 465429 |  | 8/15/2020 | 3.68 | 3.529 | 3.68 | 2.513 | Pass |
| 465430 |  | 8/15/2020 | 3.676 | 3.524 | 3.676 | 2.466 | Pass |
| 465431 |  | 8/15/2020 | 3.681 | 3.454 | 3.681 | 2.752 | Pass |
| 465432 |  | 8/15/2020 | 3.68 | 3.359 \* | 3.68 | 2.635 | Outlier |
| 465433 |  | 8/15/2020 | 3.678 | 3.489 | 3.678 | 2.143 | Pass |
| 465434 |  | 8/15/2020 | 3.678 | 3.532 | 3.678 | 2.549 | Pass |
| 465435 |  | 8/15/2020 | 3.679 | 3.55 | 3.678 | 2.469 | Pass |
| 465436 |  | 8/15/2020 | 3.68 | 3.566 | 3.68 | 2.504 | Pass |
| 465437 |  | 8/15/2020 | 3.676 | 3.581 | 3.679 | 2.517 | Pass |
| 465438 |  | 8/15/2020 | 3.679 | 3.524 | 3.679 | 2.567 | Pass |
| 465439 |  | 8/15/2020 | 3.681 | 3.375 \* | 3.682 | 2.18 | Outlier |
| 465440 |  | 8/15/2020 | 3.678 | 3.393 | 3.679 | 2.773 | Pass |
| 465441 |  | 8/15/2020 | 3.677 | 3.493 | 3.678 | 2.518 | Pass |
| 465442 |  | 8/15/2020 | 3.678 | 3.543 | 3.678 | 2.258 | Pass |
| 465443 |  | 8/15/2020 | 3.675 | 3.316 \* | 3.675 | 2.726 | Outlier |
| 465444 |  | 8/15/2020 | 3.678 | 3.536 | 3.678 | 2.376 | Pass |
| 465445 |  | 8/15/2020 | 3.678 | 3.523 | 3.678 | 2.398 | Pass |
| 465446 |  | 8/15/2020 | 3.675 | 3.526 | 3.676 | 2.779 | Pass |
| 465447 |  | 8/15/2020 | 3.678 | 3.528 | 3.679 | 2.302 | Pass |
| 465448 |  | 8/15/2020 | 3.675 | 3.33 \* | 3.675 | 2.762 | Outlier |
| 465449 |  | 8/15/2020 | 3.677 | 3.568 | 3.677 | 2.708 | Pass |
| 465450 |  | 8/15/2020 | 3.681 | 3.463 | 3.682 | 2.771 | Pass |
| 465451 |  | 8/15/2020 | 3.676 | 3.519 | 3.677 | 2.699 | Pass |
| 465452 |  | 8/15/2020 | 3.671 \* | 3.164 \* | 3.671 \* | 2.651 | Outlier |
| 465453 |  | 8/15/2020 | 3.678 | 3.473 | 3.679 | 2.265 | Pass |
| 465454 |  | 8/15/2020 | 3.679 | 3.511 | 3.68 | 2.677 | Pass |
| 465455 |  | 8/15/2020 | 3.676 | 3.544 | 3.676 | 2.688 | Pass |
| 465456 |  | 8/15/2020 | 3.677 | 3.489 | 3.677 | 2.333 | Pass |
| 465457 |  | 8/15/2020 | 3.676 | 3.501 | 3.677 | 2.342 | Pass |
| 465458 |  | 8/15/2020 | 3.678 | 3.479 | 3.679 | 2.311 | Pass |
| 465459 |  | 8/15/2020 | 3.678 | 3.503 | 3.678 | 2.264 | Pass |
| 465460 |  | 8/15/2020 | 3.677 | 3.554 | 3.678 | 2.668 | Pass |
| 465461 |  | 8/15/2020 | 3.679 | 3.49 | 3.679 | 2.97 | Pass |
| 465462 |  | 8/15/2020 | 3.667 \* | 3.57 | 3.679 | 2.463 | Outlier |
| 465463 |  | 8/15/2020 | 3.679 | 3.577 | 3.679 | 2.56 | Pass |
| 465464 |  | 8/15/2020 | 3.679 | 3.576 | 3.679 | 2.453 | Pass |
| 465465 |  | 8/15/2020 | 3.682 | 3.542 | 3.682 | 2.169 | Pass |
| 465466 |  | 8/15/2020 | 3.669 \* | 3.469 | 3.677 | 2.029 | Outlier |
| 465467 |  | 8/15/2020 | 3.68 | 3.459 | 3.68 | 2.8 | Pass |
| 465468 |  | 8/15/2020 | 3.677 | 3.535 | 3.677 | 2.411 | Pass |
| 465469 |  | 8/15/2020 | 3.679 | 3.506 | 3.68 | 2.135 | Pass |
| 465470 |  | 8/15/2020 | 3.68 | 3.493 | 3.67 \* | 2.87 | Outlier |
| 465471 |  | 8/15/2020 | 3.679 | 3.464 | 3.678 | 2.247 | Pass |
| 465472 |  | 8/15/2020 | 3.678 | 3.53 | 3.678 | 2.322 | Pass |
| 465473 |  | 8/15/2020 | 3.676 | 3.535 | 3.676 | 2.57 | Pass |
| 465474 |  | 8/15/2020 | 3.676 | 3.527 | 3.676 | 2.645 | Pass |