


**LITHIUM CELLS OR BATTERIES TEST SUMMARY
IN ACCORDANCE WITH SUB-SECTION 38.3
OF MANUAL OF TEST AND CRITERIA**

BATTERY TRANSPORTATION INFORMATION

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|--|---|---|---|----------|-----------------------|--------|----------|----------------|--------|----------|-------------|--------|----------|---------|--------|----------|--------------------------|--------|----------|----------------|--------|----------|--------------|------------------|----------|--------------------|--------|
| <i>Name of battery :</i> Item Number : 355324 Item Name : Lithium Batt. Pack Ex cNODE Maxi Item Description : Lithium primary battery pack | | <i>Battery manufacturer's contact information :</i> Kongsberg Maritime Strandpromenaden 50 3183 Horten Norway +47-33 03 24 07 kongsberg.com/maritime | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Name of the test laboratory :</i> SAFT SAS Civil Electronics Division Rue Georges Leclanché, BP 1039 F-86000 Poitiers Cedex 09 France +33-5 49 55 48 48 lithiumsales.fr@saftbatteries.com https://www.saftbatteries.com/ | | <i>Test report id. number:</i> 4S12P LSH20 12-2018-1 | <i>Date of the test report:</i> 23.12.2014 | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Description of battery:</i> This battery pack is used in cNODE Maxi Ex transponders Battery type : Lithium metal Battery energy : 1843 Wh Battery dimensions : (107x704)mm Battery weight : 6.5 kg | | <i>List of tests conducted and results (i.e. pass/fail) :</i> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 15%;">Test T.1</td><td style="width: 60%;">: Altitude Simulation</td><td style="width: 25%;">: Pass</td></tr> <tr><td>Test T.2</td><td>: Thermal test</td><td>: Pass</td></tr> <tr><td>Test T.3</td><td>: Vibration</td><td>: Pass</td></tr> <tr><td>Test T.4</td><td>: Shock</td><td>: Pass</td></tr> <tr><td>Test T.5</td><td>: External short circuit</td><td>: Pass</td></tr> <tr><td>Test T.6</td><td>: Impact/Crush</td><td>: Pass</td></tr> <tr><td>Test T.7</td><td>: Overcharge</td><td>: Not applicable</td></tr> <tr><td>Test T.8</td><td>: Forced discharge</td><td>: Pass</td></tr> </table> Additional testing comments : | | Test T.1 | : Altitude Simulation | : Pass | Test T.2 | : Thermal test | : Pass | Test T.3 | : Vibration | : Pass | Test T.4 | : Shock | : Pass | Test T.5 | : External short circuit | : Pass | Test T.6 | : Impact/Crush | : Pass | Test T.7 | : Overcharge | : Not applicable | Test T.8 | : Forced discharge | : Pass |
| Test T.1 | : Altitude Simulation | : Pass | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test T.2 | : Thermal test | : Pass | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test T.3 | : Vibration | : Pass | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test T.4 | : Shock | : Pass | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test T.5 | : External short circuit | : Pass | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test T.6 | : Impact/Crush | : Pass | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test T.7 | : Overcharge | : Not applicable | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test T.8 | : Forced discharge | : Pass | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Reference to assembled battery testing requirements, (i.e. 38.3.3 (f) and 38.3.3 (g)) :</i> Not applicable | <i>Reference to revised edition of the Manual of Tests and Criteria :</i> Revision 4 | <i>Does the battery comply with the 30% state of charge (SOC) :</i> Not applicable | | | | | | | | | | | | | | | | | | | | | | | | | |
| PRODUCT CLASSIFICATION FOR TRANSPORT (According to UN - DGP) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>UN Classification :</i> UN 3090 | | <i>Shipping name :</i> Lithium metal batteries | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Signature (name and title) :</i>  Erik Bjerke-Product manager | | This document remains valid as long as no changes, modifications, or additions are made to the battery described in this document, after being transported from Kongsberg Maritime's facilities. This battery has been classified according to the applicable transport regulations and the UN Manual of Tests and Criteria as of the date of certification. The battery must be packed, labeled and documented according to country and other international regulations for transportation. | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Date :</i> 22.11.2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | |