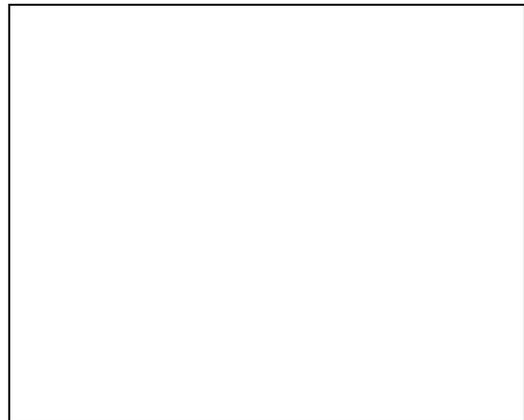


Test Inspection Report

Reliance Industries, LLC



Item Name: "Piranha Blox" SRL
 Part No.: Not issued
 Serial No.: N/A
 Lot No.: N/A
 Lot size: N/A
 Sample size: 1 ea
 Supplier: Reliance Industries, in-house



Test type: Load
 Hardness
 Corrosion
 Performance

XOther: Cycle Test of "electric" connection and unit wire rope

Test Description	<p>Sample wire rope with the embedded electrical connector was mounted into the prototype 'Pirana' SRL. The test unit drum side connection had the wire rope conductors connected to the prototype amphenol plug connector as they would be in the finished SRL unit. Three additional wires were then connected to the terminals of the amphenol plug to allow for the monitoring of the condition of the internal electrical conductor during the test.</p> <p>The 'snap end' of the wire rope was terminated with a barrel plug to allow it to be fastened to the cycle machine take-up drum, with the 3 conductors allowed to protrude from the wire rope. The (+) and the (-) conductors were secured to one another, the (GND) conductor was isolated so as not to ground out the other two conductors.</p> <p>Prior to the start of the test, electrical continuity was verified between the (+) and the (-) conductors, and that there was no "shorting" between the (GND) and either of the other two wires.</p> <p>The cycle tester was then run for 5000 cycles.</p>
Test Fixture	Reliance cycle tester fixture
Test performed by	DRA
Test criteria/standard	N/A
Pass/Fail criteria	PASS

Test Results

Test #1

After 4 days of testing, running for a total of 5,222 extraction and retraction cycles, continuity was verified again as working in between the (+) and the (-) wires. It was also verified that there was no short circuit condition between the (GND) wire and either of the other two wires. NOTE: The continuity/short circuit conditions were checked before and after each days cycle testing, as well as randomly audited during the daily running.

During the testing at around 4178 cycles, some “squeaking” was heard during the extraction/retraction cycles. This was lessened through the addition of anti-seize grease to the test unit axle. Upon completion of the cycle testing, when the unit was opened, it appeared that the test unit did not have a full greasing of the axle initially and this was responsible for the noise generated during later cycles. This noise ad no adverse impact on the cycle testing itself.

Approved Rejected

Signature: Daniel R. Adams

Date: 5/7/18