

**TEST REPORT NO. 54402-1**



TEST, ENGINEERING AND RESEARCH GROUP, SAN BERNARDINO

Pelican Products, Inc.  
23215 Early Avenue  
Torrance, CA 90505

Our Job No. T54402  
Contract —  
Your P.O. No. 46273  
Date April 2, 2007

This report contains true and correct data obtained in the performance of the test program set forth in your purchase order. Test methods, results, and equipment used are recorded on these data sheets.

Where applicable, instrumentation used in obtaining this data has been calibrated using standards which are traceable to the National Institute of Standards and Technology.

**SUMMARY:**

One Case, Part No. 1550 (no serial number), was subjected to Low Temperature Testing in accordance with DEF STAN 81-41 (Part 3) Issue 4, Paragraph 21. Upon completion of the test, no visible evidence of damage to the test specimen was observed. Complete test details, including photos and equipment lists, are contained in this report.

Test Dates: 3/12/07-3/13/07

STATE OF CALIFORNIA }  
COUNTY OF SAN BERNARDINO } SS.

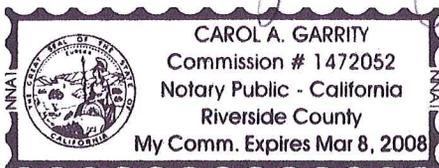
Phillip Knoll

\_\_\_\_\_ being duly sworn, deposes and says: That the information contained in this report is the result of complete and carefully conducted tests and is to the best of his knowledge true and correct in all respects.

*Phillip Knoll*

SUBSCRIBED and sworn to before me this 3 day of Apr, 2007 by Phillip Knoll personally known to me or proved to me on the basis of satisfactory evidence to be the person who appeared before me.

*Carol Garrity*



**TEST OPERATIONS**

TEST ENGINEER *M. Bovard* 4/3/07  
M. Bovard

DEPT. MANAGER *Phillip Knoll* 4/3/07  
R. Knoll

QUALITY ASSURANCE *J. L. Happoldt*  
*For* G. Montgomery





# DATA SHEET

Test Title Low Temperature

Customer Pelican Products, Inc. Job No. T54402  
Specimen Case Date Started 3/12/2007  
Part No. 1550 Serial No. See Recv. Insp. Date Comp. 3/13/2007  
Spec. DEF STAN 81-41 Part3/4 Par. 21 Photo Yes Amb. Temp. 25 ± 10°C

**Requirements:**

Temperature: -40± 2 °C  
Duration: 16±0.5 hours after specimen has reached test temperature or 7 days ± 1 hour if time required for the complete package to attain the temperature cannot be assessed

**Test Method:**

Place the test specimen in a test chamber on the face on which it normally is expected to be transported or stored. Install a thermocouple on the test specimen. Decrease the chamber temperature to -40± 2 °C at a rate not to exceed 3 °C per minute. Maintain the chamber at -40± 2 °C for either:

- 1) 16±0.5 hours after specimen has reached test temperature or
- 2) 7 days ± 1 hour if time required for the complete package to attain the temperature cannot be assessed.

Return the chamber temperature to 20± 10 °C at a rate not to exceed 3 °C per minute.

Perform a visual examination. The package is considered to have failed if it is unserviceable or is affected in any way which would potentially cause the test specimen to become unserviceable.

**Test Results:**

All testing was performed according to the Test Method and Requirements stated above. No visual evidence of damage was observed upon completion of the test.

Tested By *[Signature]* 3/13/07  
Engineer *[Signature]* 3/30/07



Photograph 1  
Low Temperature Test Setup

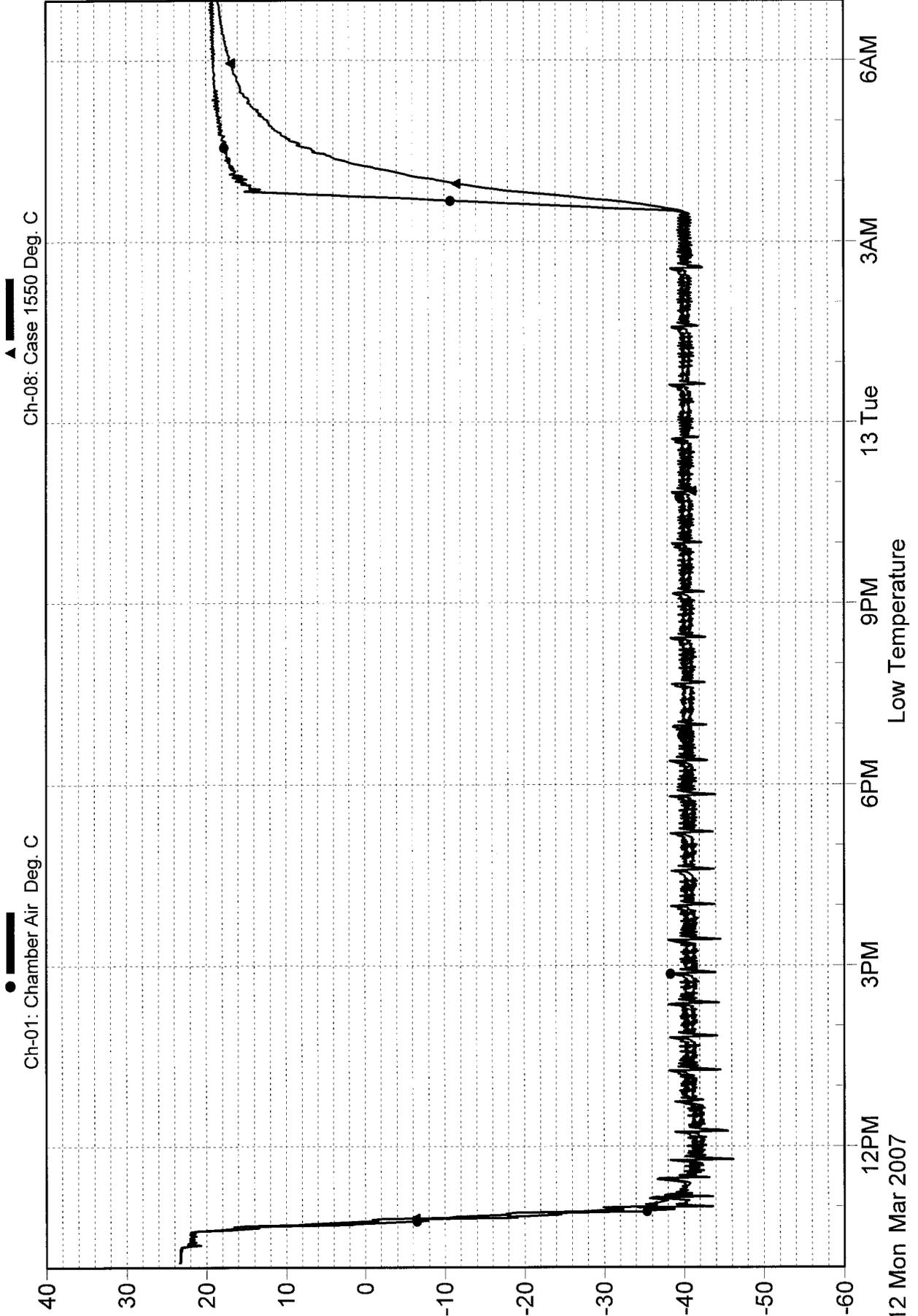


# Pelican Products J/N-T54402

Case

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03-20-2007 07:38:04 DL2k5



CUSTOMER: Pelican Products, Inc.

Job No.: T54402

Date: 3/12/2007

Specimen: Case

Technician: S. Paysen

*SP 3/23/07*

Part No.: See Recv. Insp.

Serial No.: See Recv. Insp.

Engineer: M. Bovard

*MB 3/30/07*

EQUIPMENT	MANUFACTURER	MODEL #	RANGE	WYLE #	CALIBRATION		ACCY.
					LAST	DUE	
Chamber - Environmental	Bally	Chamber 3	-80 to +240°F & Rh / 8' x 8' x 7'10" / CO2 & LN2	W50714	* System	Calibration *	Mfg. Spec.
Controller - Chamber	Watlow / Omega	922 / CN9000	-100° to 240°F / 0-100%Rh	W50704	* System	Calibration *	Mfg. Spec.
Multimeter/DAS	Keithley	2700	10VDC & Type T TC's	W13690	11/13/2006	11/13/2007	±2%
Multiplexer Module	Keithley	7700	20 Channels Volts or TC's	W14903	11/13/2006	11/13/2007	Mfg. Spec.
Rh Probe	Vaisala	HMP13	0 - 100% rH	W11874	11/13/2006	05/13/2007	3%

Where applicable, the listed test equipment has been calibrated using standards which are traceable to the National Institute of Science & Technology. Certificates and reports of all calibrations are retained in the Wyle Laboratories QA files and are available for inspection upon request. \*Equipment identified as System Calibration are verified prior to use.