TEST REPORT NO. 53628-10



TEST, ENGINEERING AND RESEARCH GROUP, SAN BERNARDINO

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

Our Job No.

DE 53628

Contract

Your P.O. No.

43647

Date

November 1, 2006

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. 1640 (no serial number) was subjected to Dust IP6X Category 2 Testing and Immersion IPX7 Testing in accordance with CEI IEC 529 specifications. Upon completion of the tests, 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: 10/10/06-10/12/06

STATE OF CALIFORNIA COUNTY OF SAN BERNARDINO SS.	TEST OPERATIONS
Douglas G. Anderson, 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	TEST Branhate 11/1/06
true and correct in all respects.	H. Pemberton
SUBSCRIBED and sworn to before me this day of, 2006	MANAGER P. Wholl
by Douglas G. Anderson personally known to me or proved to me on the basis of satisfactory evidence to be the person who appeared before me.	QUALITY ASSURANCE J. L. Happoldt
- Could garity	Fol G. Montgomery
CAROL A GARRITY Commission # 1472052 Notary Public - California	

My Comm. Expires Mar 8, 2008



DATA SHEET

Customer	Pelican Products, Inc.	Job No	53628	
*		Date _	10/9/2006	
Specimen	Case		2	

RECEIVING INSPECTION

/lanufact	urer: Peli	can Products, Ir	nc.	
P/N's _1	640		S/N's	N/A
_				
-				
— How does	s identification	on information	appear: (name pla	ate, tag, painted, imprinted, etc.)
Sticker				
Examina			of damage, poor veteness of identific	workmanship, or other ation.
	n Pocultor	There was no	visible evidence (of damage to the specimen(s)

recinsp

Inspected By Sheet No.

Approved /

Date 10/9/06



DATA SHEET

				and the second s	
Custom	er Pelican Products, Inc.			Job No.	53628
Specime	en Case			Date Sta	arted _10/10/2006
Part No.	1640	Serial No.	N/A	Date Co	mp 10/10/2006
Spec.	CEI IEC 529	Par. 13.4 & 13	3.6 Photo	Yes Amb. Te	emp. 15°C to 35 °C

Dust IP6X Category 2

Requirements:

Dust Concentration:

Test Title

2 Kg per cubic meter test chamber volume

Duration:

8 hours

Test Method:

Place the test specimen in a test chamber. Establish a dust concentration of 2 Kg per cubic meter of test chamber volume. Expose the test specimen to this dust environment for 8 hours.

Remove accumulated dust from the test specimen by brushing, wiping, or shaking, taking care to avoid introducing additional dust into the test item. Do not remove dust by either air blast or vacuum cleaning. Perform a visual examination for evidence of damage or deterioration.

Test Results:

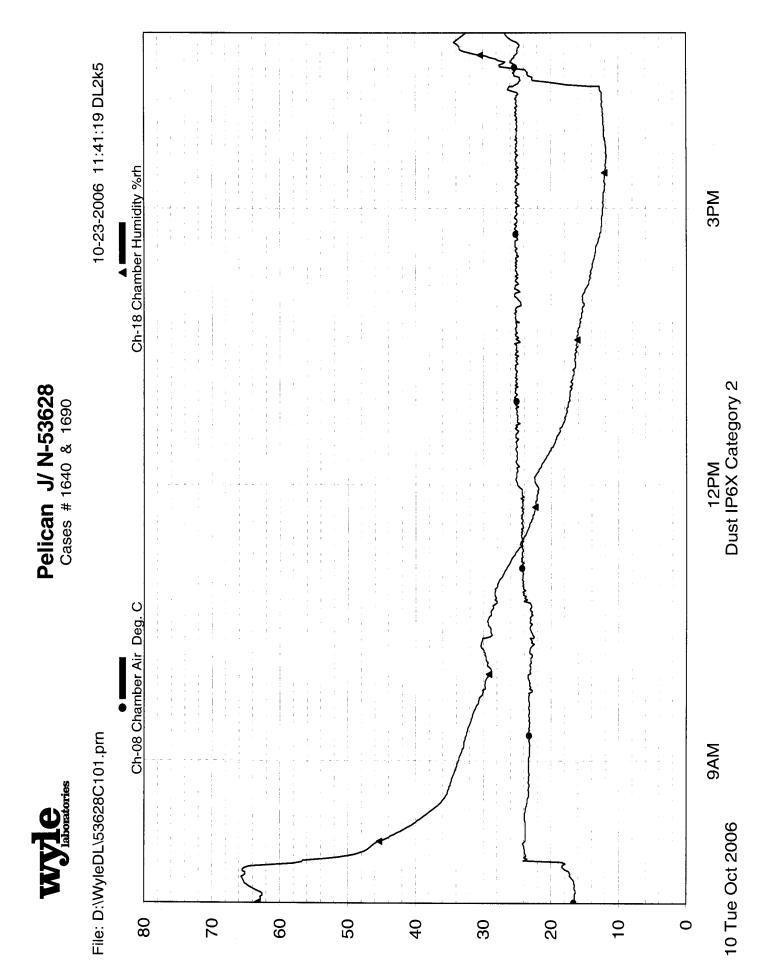
All testing was performed according to the Test Methods and Requirements stated above. Upon completion of the test, no visual evidence of dust intrusion was observed inside the test specimen. No visible evidence of damage to the test specimen was observed upon completion of testing.

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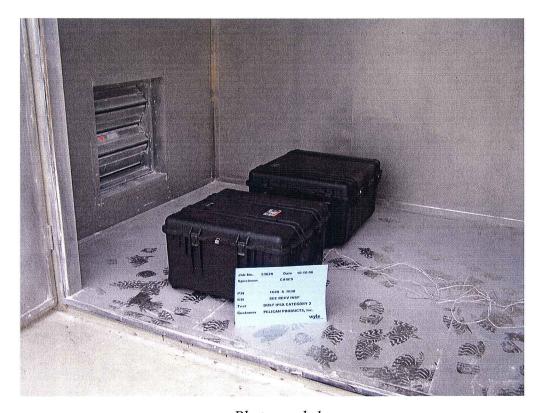
Tested By

Engineer

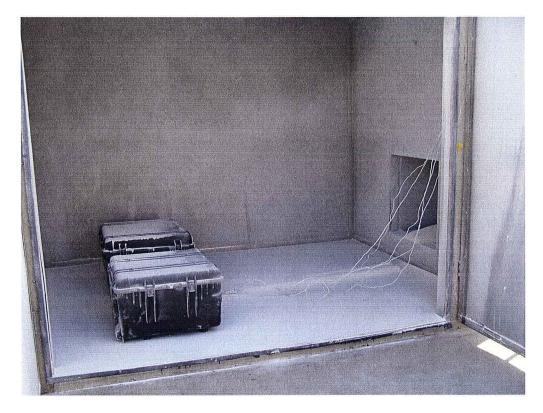
W614A-8/97 QA Form Approval GM.







Photograph 1
Dust Test Setup (Tested with other Pelican Product Items)



Photograph 2
Post Dust Test

TEST TITLE:

.E: Dust (IPX6 Category 2)

0/10/00 Mfg. Spec. Mfg. Spec. Mfg.Spec. ACCY. Technician: C. Natzic 19/18/96 .1 sec ±2% 3% Engineer: H. Pemberton 12/01/2006 11/30/2006 Calibration * 12/01/2006 Calibration * 01/28/2007 DOE CALIBRATION Date: 10-10-2006 * System * System 05/31/2006 12/01/2005 12/01/2005 07/28/2006 LAST W11829 W14903 W13690 W13604 W50716 W50708 WYLE # -60 to +180°F / 11' x 7' x 7' / LN2 20 Channels Volts or TC's Job No.: 53628 10VDC & Type T TC's RANGE See Recv. Insp. -100° to 240°F 10 hour 0-100% Serial No.: 922 / CN9000 MODEL # **HMP 135Y** 365530 2700 7700 Dust MANUFACTURER Watlow / Omega Cole Parmer CUSTOMER: Pelican Products, Inc Keithley Vaisala Keithley Wyle See Recv. Insp. Chamber - Environmental Cases Controller - Chamber EQUIPMENT Multiplexer Module Multimeter/DAS Specimen: Stopwatch Part No.: Rh Probe

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.



DATA SHEET

Test Title Immersion (IPX7) CustomerPelican Products, Inc.Job No.53628 Specimen Case **Date Started** 10/12/2006 Serial No. N/A **Part No.** 1640 **Date Comp.** 10/12/2006 Spec. CEI IEC 529 **Par.** 14.2.7 **Photo** Yes **Amb. Temp.** 75° ± 15 °F

Requirements:

Water Level:

Test specimens with a height less than 850 mm (33.46 inches) has the lowest point of the test specimen 1000 mm (39.37 inches) below the surface of the water surface. Test specimens with a height equal to or greater than 850 mm (33.46 inches) has the highest point of the test specimen 150 mm (3.9)

inches) below the surface of the water

Water Temperature:

Water temperature maintained at not less than 5 °K

(10 °F) below the specimen temperature

Soak Duration:

30 minutes

Test Method:

Visually inspect the test specimen. Place the test specimen in a submersion tank. Test specimens with a height less than 850 mm (33.46 inches) has the lowest point of the test specimen 1000 mm (39.37 inches) below the surface of the water surface. Test specimens with a height equal to or greater than 850 mm (33.46 inches) has the highest point of the test specimen 150 mm (3.9 inches) below the surface of the water.

Verify the water temperature is not less than 5 °K (10 °F) below the specimen temperature. Allow the test specimen to soak for 30 minutes.

Remove the test specimen from the tank. To check for the presence of moisture inside the specimen the specimen is to be cut open per customer directions. Document all results.

Test Results:

The test was performed in accordance with the Test Method and Requirements stated above. Weights and sand bags totaling 500 lbs were placed inside the test specimen to eliminate buoyancy. Upon completion of the test, no water was observed inside the test specimen. No visible evidence of damage to the test specimen was observed upon completion of testing.

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Tested By

Engineer









Photograph 4 Immersion Test Setup



Photograph 5 Immersion Test Setup

Wyle Iaboratories

TEST TITLE: Immersion (IPX7)

Technician: S. Paysen Date: 10-11-2006 Job No.: 53628 CUSTOMER: Pelican Products, Inc Specimen: Cases Pal

Part No.: See Recv. Insp.		Serial No.:	See Recv. Insp.	Ш	ingineer: H	Engineer: H. Pemberton 1911/06	10/11/00
HNUMONIC	MANIFACTURER	MODE! #	RANGE	# # INVI	CALIB	CALIBRATION	700
EQUIPIVEN				VV LL #	LAST	DUE	ACCY.
Cylinder Graduated	Ругех	3025	0 - 250 ml	W13057	09/14/2006	09/14/2009	0.1%
Scale	Certified Scale	TR-1-NK	1000 lbs.	W13126	05/08/2006	05/08/2007	.2 lbs.
Stopwatch	Cole Parmer	365530	10 hour	W13604	07/28/2006	01/28/2007	.1 sec
Tape Measure	Keson	100	100 ft.	W12590	06/26/2006	06/26/2007	Mfg. Spec.
Temperature - Digital Indicator	Tegam	819	-300 to +700 °F	W13596	07/28/2006	01/28/2007	.1%
		-					

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