TEST REPORT NO. 53628-6



Pelican Products, Inc. 23215 Early Avenue Torrance, CA 90505
 Our Job No.
 DE 53628-0

 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. 1560-011-110 (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: 10/16/06-10/17/06

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 true and correct in all respects. SUBSCRIBED and sworn to before me this day of, 2006 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. CAROL A. GARRIIY Tommission # 1472052 Notary Public - California	TEST ENGINEER <u>HPanhata</u> 11/1/06 H. Pemberton DEPT. MANAGER Hully Hull 11/106 Di Knoll QUALITY ASSURANCE J. A. Happelel Fior G. Montgomery
Riverside County My Comm. Expires Mar 8, 2008	



DATA SHEET

					Date	10/9/2006	
	Specimen	Case		e e tit ongi kana a			
			RECEIVI	NG INSPE	CTION		
No. of	Specimen	s Received:	1				
Record	d identificati	on informatio	n exactly as	s it appears	on the tag	g or specimen:	
							7
Manuf	acturer: _	Pelican Produ	icts, Inc.				
P/N's	1560-001	-110		S/N's	N/A		
				_			
					•••••		
				_			
How of Sticke		cation inform	ation appea	ar: (name pla	ate, tag, p	ainted, imprinted, etc	c.)
	ination: Vi	isual, for evid efects, and c				ship, or other	
Inspe		Ilts: There w		e evidence (e to the specimen(s)	
			12 - S				

Inspected By Sheet No. 1 Approved of 1 derto Of 1 Date 10/9/06 1

W614-8/97 QA Form Approval <u>GM</u>.



DATA SHEET

Test Title Dust IP6X Category 2

Customer	Pelican Products, Inc.					Job No. 5362	28
Specimen	Case					Date Started	10/16/2006
Part No.	1560	_ Serial No.	N/A			Date Comp.	10/16/2006
Spec. CE	I IEC 529 Pa	ar. <u>13.4 & 1</u>	3.6	Photo _	Yes	Amb. Temp.	15°C to 35 °C

Requirements:

Dust Concentration: Duration: 2 Kg per cubic meter test chamber volume 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.

Tested By AM 10/29/8 Engineer

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File: D:\WyleDL\53628C105.prn

Pelican J/ N-53628 Cases # 1495 , 1510 , 1560

10-23-2006 11:46:07 DL2k5

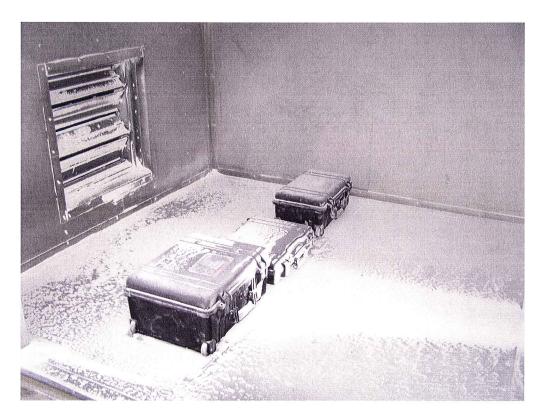
(Ch-08	● ■■■■ Ch-08 Chamber Air Deg. C	Ch-18 Chamber Humidity %rh	Γ
08				
20	1 (1) (1) (1)			
09				
50				
40				
30				
20				
0				
0 0 6 Mo	0 6 Mon Oct 2006	9AM 12PM Dust IP6X Category 2	3PN	

16 Mon Oct 2006





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



Photograph 2 Post Dust Test

wyle laboratories

TEST TITLE: Dust (IPX6 Category 2)

10/10/01 Mfg. Spec. Mfg. Spec. Mfg.Spec. Technician: C. Natzic 10-06 ACCY. .1 sec F ±2% 3% Engineer: H. Pemberton 12/01/2006 12/01/2006 11/30/2006 Calibration * Calibration * 01/28/2007 DUE CALIBRATION Date: 10-10-2006 * System 05/31/2006 * System 12/01/2005 12/01/2005 07/28/2006 LAST W11829 W14903 W13690 W13604 W50716 W50708 WYLE # -60 to +180°F / 11' × 7' × 7' / LN2 20 Channels Volts or TC's Job No.: 53628 10VDC & Type T TC's RANGE See Recv. Insp. -100° to 240°F 0-100% 10 hour Serial No.: MODEL # 922 / CN9000 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

W-614 Rev. 5/02



DATA SHEET

	Test T	itle	Immersion	(IPX7)				
Custome	r Pelican Products, Inc.						Job No. 536	28
Specime	Case	6 100 10 10 10 10 10 10 10 10 10 10 10 10					Date Started	10/17/2006
Part No.	1560	S	erial No.	N/A			Date Comp.	10/17/2006
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 specimen150 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 specimen150 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:

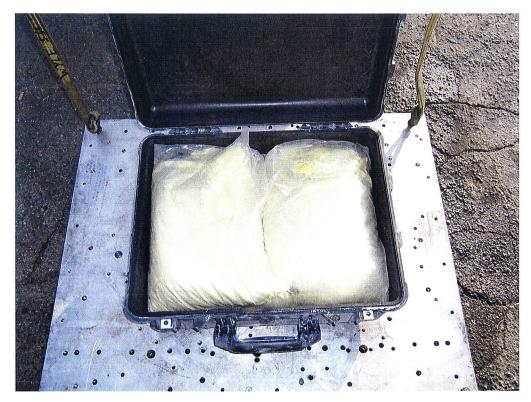
The test was performed in accordance with the Test Method and Requirements stated above. Weights and sand bags totaling 140 lbs were placed inside the test specimen to eliminate buoyancy. Upon completion of the test, no water was observed inside the test specimen. No visible evidence of damage to the test specimen was observed upon completion of testing.

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Engineer

Tested By 10/24/06





Photograph 3 Immersion Test Setup



Photograph 4 Immersion Test Setup





Photograph 5 Immersion Test Setup



Photograph 6 Immersion Test Setup

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N	N.

Immersion (IPX7) TEST TITLE:

CUSTOMER: Pelican Products, Inc	lucts, Inc		Job No.: 53628	Date: 1	Date: 10-11-2006	
Specimen: Cases				Technicia	Technician: S. Paysen	10/11/06
Part No.: See Recv. Insp.		Serial No.:	See Recv. Insp.	Engineer	Engineer: H. Pemberton	10
EQUIPMENT	MANUFACTURER	MODEL #	RANGE	WYLE # LAST	CALIBRATION T DUE	АССҮ.
Cylinder Graduated	Pyrex	3025	0 - 250 ml	W13057 09/14/2006	09/1	0.1%
Scale	Certified Scale	TR-1-NK	1000 lbs.	W13126 05/08/2006	06 05/08/2007	.2 lbs.
Stopwatch	Cole Parmer	365530	10 hour	W13604 07/28/2006	06 01/28/2007	.1 sec
Tape Measure	Keson	100	100 ft.	W12590 06/26/2006	06 06/26/2007	Mfg. Spec.
Temperature - Digital Indicator	Tegam	819	-300 to +700 °F	W13596 07/28/2006	06 01/28/2007	.1%
W-614 Rev. 5/02	Where applicable, the listed Science & Technology. Cer available for inspection upo	test equipment has bee tificates and reports of n request. *Equipmen	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.	e traceable to the Nation de Laboratories QA file verified prior to use.	al Institute of s and are	