## **TEST REPORT NO. 53628-4**



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. 1495 (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 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. CAROLA. GARRITY Commission # 1472052 Notary Public - California Riverside County My Comm. Expires Mar 8, 2008	TEST ENGINEER Hambet 11/1/06 H. Pemberton DEPT. MANAGER Hull U/1/06 F. Rnoll QUALITY ASSURANCE Hick Happoldt For G. Montgomery

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## **DATA SHEET**

C	ustomer	Pelican Pro	ducts, Inc.		_ Job No			
S	pecimen	Case			_ Date	10/9/2006		
			RECEIVIN	IG INSPE	CTION			
No. of S	pecimen	s Received:	1					
Record i	dentificati	on informatio	n exactly as	it appears o	on the tag	g or specimer	1:	
Manufac	cturer: _	Pelican Produ	icts, Inc.			л - та с		
P/N's	1495			S/N's	N/A			
-				-				
-				-				
-				-	<u>.</u>			
-				-				
How do Sticker	es identifi	cation inform	ation appear	: (name pla	te, tag, p	ainted, imprir	nted, etc.)	
	a <b>tion:</b> Vi de	sual, for evid efects, and co	ence of dam ompleteness	age, poor w of identifica	vorkmans ation.	ship, or other		
Inspect	ion Resu	Its: There w unless o	as no visible otherwise no	evidence c ted below.	of damage	e to the speci	men(s)	
isp					Inspect	ed By	ason Jaco a	) 10 la
- 614 – Rev	v. 08/06				Sheet N Approve	lo.	of Date _/	



## 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.	1495	Serial No.	N/A	(\$47)		Date Comp.	10/16/2006
Spec. CE	I IEC 529 P	<b>ar.</b> <u>13.4 &amp; 1</u>	13.6	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.

loge 10/23/06 Tested By Engineer

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W614A-8/97 QA Form Approval <u>GM</u>.



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

# File: D:\WyleDL\53628C105.prn

10-23-2006 11:46:07 DL2k5

Ch-08 Chamber Air Deg. C 

Ch-18 Chamber Humidity %rh 

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3PM

12PM Dust IP6X Category 2

16 Mon Oct 2006

9AM

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Dust Test



	<b>D</b> matories
F	<b>W</b> Market

Dust (IPX6 Category 2) TEST TITLE:

Technician: C. Natzic 10/10/6 Date: 10-10-2006 Job No.: 53628 Pelican Products, Inc Cases CUSTOMER: Specimen:

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opedilleti. Cases							1 colore
Part No.: See Recv. Insp.		Serial No.:	See Recv. Insp.	Engir	neer: H.	t≯∕~ Engineer: <u>H. Pemberton ≀⁰//∿∕</u> ×	10/10/0X
	MANULEACTUBED	#			CALIBI	CALIBRATION	
EQUIPMENT		WODEL #	RAINGE	WYLE#	LAST	DUE	ACCY.
Chamber - Environmental	Wyle	Dust	-60 to +180°F / 11' x 7' x 7' / LN2	W50716 *	* System (	Calibration *	Mfg. Spec.
Controller - Chamber	Watlow / Omega	922 / CN9000	-100° to 240°F	W50708 *	* System (	Calibration *	Mfg.Spec.
Multimeter/DAS	Keithley	2700	10VDC & Type T TC's	W13690 12/0	12/01/2005	12/01/2006	±2%
Multiplexer Module	Keithley	7700	20 Channels Volts or TC's	W14903 12/0	12/01/2005	12/01/2006	Mfg. Spec.
Rh Probe	Vaisala	HMP 135Y	0-100%	W11829 05/3	05/31/2006	11/30/2006	3%
Stopwatch	Cole Parmer	365530	10 hour	W13604 07/2	07/28/2006	01/28/2007	.1 sec

W-614 Rev. 5/02



## DATA SHEET

	Test T	itle _	mmersion	(IPX7)				
Customer	Pelican Products, Inc.						Job No. 536	28
Specimen	Case						Date Started	10/17/2006
Part No.	1495	S	erial No.	N/A			Date Comp.	10/17/2006
Spec. C	EI 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
Soak Duration:	(10 °F) below the specimen temperature 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 small weights totaling 94 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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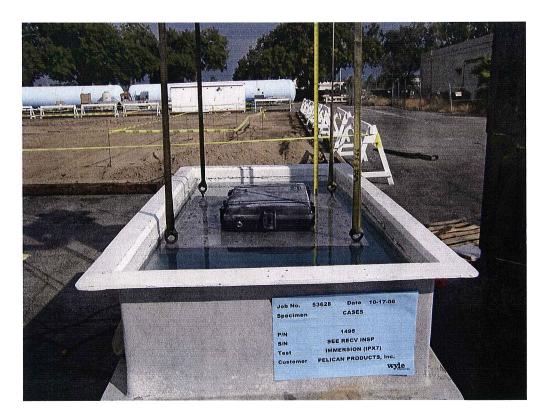
Tested By 11.1911 Engineer

W614A-8/97 QA Form Approval \_GM.





Photograph 3 Immersion Test Setup



Photograph 4 Immersion Test Setup





Photograph 5 Immersion Test Setup



Photograph 6 Immersion Test Setup

<b>Wyle</b> Jaboratories	TEST TITLE:Imme	Immersion (IPX7)					
CUSTOMER: Pelican Products, Inc	lucts, Inc		Job No.: 53628	Da	Date: 10-11-2006	-2006	3
Specimen: Cases				Te	Technician: S. Paysen	S. Paysen	10/11/01
Part No.: See Recv. Insp.		Serial No.:	See Recv. Insp.	Eu	igineer: <u>H</u> .	Engineer: H. Pemberton	1+10 10/m/ac
EQUIPMENT	MANUFACTURER	MODEL #	RANGE	WYLE #	CALIB	CALIBRATION T DUE	ACCY.
Cylinder Graduated	Pyrex	3025	0 - 250 ml	W13057 0	09/14/2006	09/14/2009	0.1%
Scale	Certified Scale	TR-1-NK	1000 lbs.	W13126 0	05/08/2006	05/08/2007	.2 lbs.
Stopwatch	Cole Parmer	365530	10 hour	W13604 0	07/28/2006	01/28/2007	.1 sec
Tape Measure	Keson	100	100 ft.	W12590 C	06/26/2006	06/26/2007	Mfg. Spec.
Temperature - Digital Indicator	Tegam	819	-300 to +700 °F	W13596 C	07/28/2006	01/28/2007	.1%
W-614 Rev. 5/02	Where applicable, the listed Science & Technology. Ce: available for inspection upo	test equipment has be trificates and reports c 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.	re traceable to th yle Laboratorie: verified prior to	ne National Ins s QA files and o use.	stitute of are	