TEST REPORT NO. 53628-11



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. 1660-101-110 (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: 10/12/06-10/13/06

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.	TEST ENGINEER Hombeta 11/1/06 H. Pemberton
SUBSCRIBED and sworn to before me this day of 100, 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.	DEPT. MANAGER HULP JUL 11/106 RJKnoll QUALITY ASSURANCE H.J. Happoldt For G. Montgomery
CAROL A. GARRITY Commission # 1472052 Notary Public - California Riverside County My Comm. Expires Mar 8, 2008	



DATA SHEET

	Specimen	Case					
	opeennen						
		F	RECEIVIN	G INSPE	CTION		
8-9-14-14-14-14-14-14-14-14-14-14-14-14-14-							a transfer of the first second
No. of	Specimen	s Received: _	1				1
Record	l identificat	ion information	exactly as i	t appears	on the tag	or specimen:	
Manuf	acturer:	Pelican Product	s, Inc.				- 11-2 P.B
P/N's	1660-101	-110		S/N's	N/A		
F/14 5	1000-101	-110		3/N S	N/A		
						· · · · · · · · · · · · · · · · · · ·	
How d		ication informati	on appear:	(name pla	ite, tag, pa	ainted, imprinted, etc	c.)
		ioual far avidar	an of doma				
Exam	d	isual, for evider efects, and com	ice of dama	age, poor v of identifica	vorkmans ation.	nip, or other	
Inspe	ction Resu	Ilts: There was	no visible	evidence d	of damage	to the specimen(s)	
		unless oth	erwise not	ed below.			

Approved The

ht_ Date 10/9/06

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	10/12/2006
Part No.	1660	Se	erial No.	N/A			Date Comp.	10/12/2006
Spec. CE	I IEC 529	Par.	13.4 & 1	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.

th 10/21/06 Tested By

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W614A-8/97 QA Form Approval _GM.

Engineer

Wyle Laboratories

Pelican J/ N-53628 Cases # 1620 , 1660

10-23-2006 11:35:30 DL2k5

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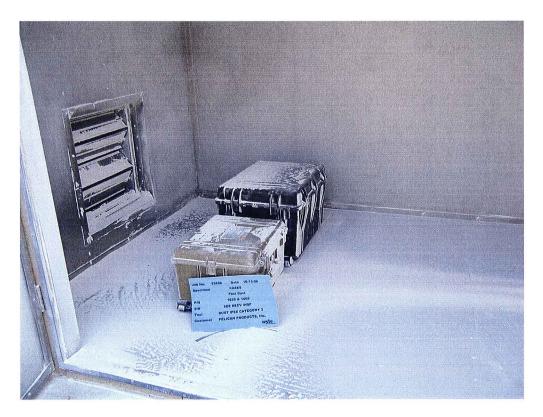
Ċ	Ch-08 Chamber Air Dea	Dea. C	Ch-18 Chamber Humidity %rh	rh
00				
20				
60				
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2 Thu	2 Thu Oct 2006	12PM Dust IP6X Category 2	n	MAR

12 Thu Oct 2006





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



Photograph 2 Post Dust Test

Wyle Jaboratories

TEST TITLE: Dust (IPX6 Category 2)

	10/01/07	170	1004	AULT.	Mfg. Spec.	Mfg.Spec.	±2%	Mfg. Spec.	3%	.1 sec	
			CALIBRATION	DUE	Calibration *	Calibration *	12/01/2006	12/01/2006	11/30/2006	01/28/2007	
Date: <u>10-10-2006</u> Technician: <u>C. Natzic</u>		Engineer: H.	Engineer: <u>H. Pemberton</u> calibration	LAST	* System	* System	12/01/2005	12/01/2005	05/31/2006	07/28/2006	
	F		WVI F #	#	W50716	W50708	W13690	W14903	W11829	W13604	
Job No.: 53628		See Recv. Insp.	RANGE		-60 to +180°F / 11' x 7' x 7' / LN2	-100° to 240°F	10VDC & Type T TC's	20 Channels Volts or TC's	0-100%	10 hour	
		Serial No.:	MODEL #		Dust	922 / CN9000	2700	0022	HMP 135Y	365530	
ucts, Inc		MANUFACTURER		Wyle	Watlow / Omega	Keithley	Keithley	Vaisala	Cole Parmer		
CUSTOMER: Pelican Products, Inc	Specimen: Cases	Part No.: See Recv. Insp.	FOLIIPMENT		Chamber - Environmental	Controller - Chamber	Multimeter/DAS	Multiplexer Module	Rh Probe	Stopwatch	

W-614 Rev. 5/02



DATA SHEET

	Test Ti	itle _	mmersion	(IPX7)				
Customer	Pelican Products, Inc.						Job No 536	28
Specimen	Case						Date Started	10/13/2006
Part No.	1660	S	erial No.	N/A			Date Comp.	10/13/2006
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 (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:

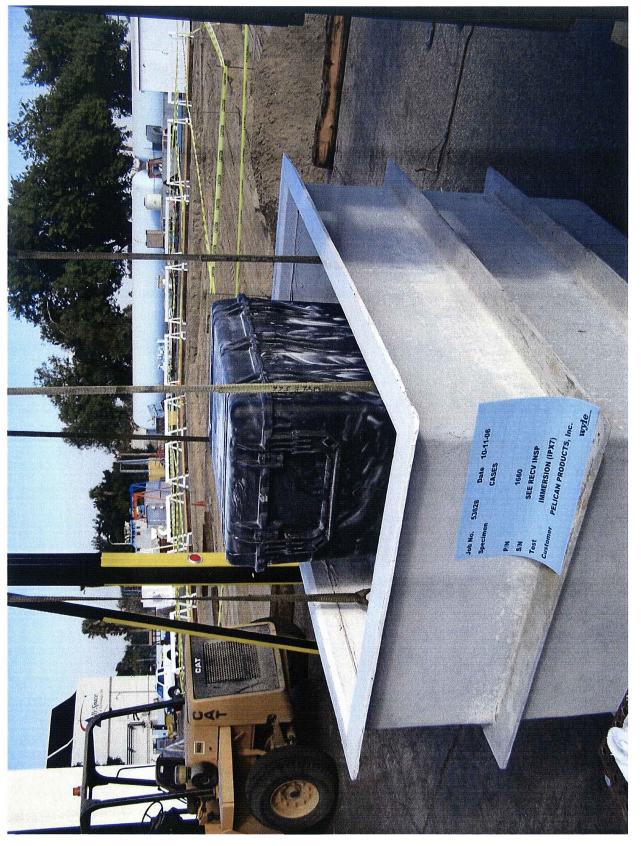
The test was performed in accordance with the Test Method and Requirements stated above. Weights and sand bags totaling 530 lbs were placed inside the test specimen to eliminate buoyancy. Upon completion of the test, no water was observed inside the test specimen. No visible evidence of damage to the test specimen was observed upon completion of testing.

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Engineer

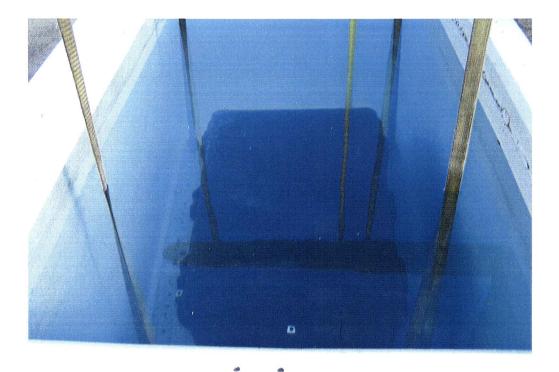
Tested By





Photograph 3 Immersion Test Setup





Photograph 4 Immersion Test Setup



Photograph 5 Immersion Test Setup

Wyle Jaboratories

TEST TITLE: Immersion (IPX7)

	10/:100	10/11/01	ACCY.	0.1%	.2 lbs.	.1 sec	Mfg. Spec.	.1%	
2006	S. Paysen	Pemberton	CALIBRATION T DUE	09/14/2009	05/08/2007	01/28/2007	06/26/2007	01/28/2007	
Date: 10-11-2006	Technician: S. Paysen	Engineer: H. Pemberton	CALIBI	09/14/2006	05/08/2006	07/28/2006	06/26/2006	07/28/2006	
	F	ш	# HANN	W13057	W13126	W13604	W12590	W13596	
Job No.: 53628		See Recv. Insp.	RANGE	0 - 250 ml	1000 lbs.	10 hour	100 ft.	-300 to +700 °F	
		Serial No.:	MODEL #	3025	TR-1-NK	365530	100	819	
icts, Inc			MANUFACTURER	Pyrex	Certified Scale	Cole Parmer	Keson	Tegam	
CUSTOMER: Pelican Products, Inc	ပြို	Part No.: See Recv. Insp.	EQUIPMENT	Cylinder Graduated	Scale	Stopwatch	Tape Measure	Temperature - Digital Indicator	

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