TEST REPORT NO. 53628-9



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. 1630 (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: 10/11/06-10/12/06

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	TEST UC III
complete and carefully conducted tests and is to the best of his knowledge true and correct in all respects.	ENGINEER Hemberton
Decoffee	DEPT. Di Or dia ulia
SUBSCRIBED and sworn to before pie this day of, 2006	MANAGER PKnoll
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. Happolet
Coul alpinity	For G. Montgomery
CAROL A. GARRITY	
Commission # 1472052	
Riverside County My Comm. Expires Mar 8, 2008	

C.

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Custo	mer _F	Pelican Pro	ducts, Inc.		_ Job No	b. 53628	
					Date	10/9/2006	
Speci	men C	ase					
			RECEIVIN	NG INSPEC	TION		
No. of Speci	mens R	eceived:	1				
						g or specimen:	
	neation	mormatio		it appears o	in the tag	j or specimen.	
Manufacture	r: _Pe	lican Produ	ıcts, Inc.				
P/N's 1630)			S/N's	N/A		
How does id	entificat	ion inform	ation appear	r: (name plat	te tag p	ainted, imprinted, etc.)	
Sticker					, <u></u> , p		
Examinatio	n: Visu	al for evid	ence of dam	ade poorw	orkmans	ship, or other	
				of identifica			
Inspection I	Results	: There w	as no visible	evidence of	f damage	e to the specimen(s)	
		unless o	otherwise no	ted below.			
sp							
ob 0					Inspecto Sheet N		- 10/4





DATA SHEET

	Test Title	Dust IP6X Category	2		
ustomer Pelican	Products, Inc.			Job No536	628
pecimen Case				Date Started	10/11/2006
art No1630		Serial No. N/A		Date Comp.	10/11/2006
pec. CEI IEC 529	Par.	13.4 & 13.6	Photo Yes	Amb. Temp.	15°C to 35 °C
Requireme	nts:				
Dust Dura	Concentration: tion:	2 Kg per cubi 8 hours	c meter test c	hamber volume	
Test Metho	d:				
Kg per cubic		n in a test chambe mber volume. Exp			
shaking, tak remove dus	ing care to avoid i	dust from the test s ntroducing addition or vacuum cleanir oration.	al dust into the	e test item. Do r	ot
Test Result	s:				

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 10/24/06 Engineer

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Wyle

File: D:\WyleDL\53628C102.prn

Pelican J/ N-53628 Cases # 1610 & 1630

10-23-2006 11:38:39 DL2k5

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11 We	9/ 11 Wed Oct 2006	9AM 12PM Dust IP6X Category 2	PM 3PM gory 2	





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



Photograph 2 Post Dust Test

Dust (IPX6 Category 2)	
TEST TITLE:	Pelican Products, Inc
Wyle	CUSTOMER:

Pelican Products, Inc			Job No.: 53628	- Da	Date: <u>10-10-2006</u>	Date: 10-10-2006	2
Cases				e	chnician: (C. Natzic 10	10/06
See Recv. Insp.		Serial No.:	See Recv. Insp.	Ē	gineer: H.	Engineer: H. Pemberton 101/0/06	10/0/08
	MANIFACTURER	MODEL #	RANGF		CALIBI	CALIBRATION	
				# 11 1 4	LAST	DUE	AULT.
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.
	Keithley	2700	10VDC & Type T TC's	W13690 1	12/01/2005	12/01/2006	±2%
	Keithley	7700	20 Channels Volts or TC's	W14903 1	12/01/2005	12/01/2006	Mfg. Spec.
	Vaisala	HMP 135Y	0-100%	W11829 0	05/31/2006	11/30/2006	3%
	Cole Parmer	365530	10 hour	W13604 0	07/28/2006	01/28/2007	.1 sec

W-614 Rev 5/02



DATA SHEET

Test Title	Immersion (IPX7)
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Customer	Pelican Products, Inc.						Job No 5362	28
Specimen	Case						Date Started	10/12/2006
Part No.	1630	Se	erial No.	N/A			Date Comp.	10/12/2006
Spec. CE	I 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 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.

> Tested By Engineer

W614A-8/97 QA Form Approval GM.

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Photograph 3 Immersion Test Setup



Photograph 4 Immersion Test Setup

Wyle laboratories	TEST TITLE:	Immersion (IPX7)					
CUSTOMER: Pelican Products, Inc	ucts, Inc		Job No.: 53628		Date: 10-11-2006	-2006	
Specimen: Cases					Technician: S. Paysen	S. Paysen	10/11/01
Part No.: See Recv. Insp.		Serial No.:	See Recv. Insp.		Engineer: H	H. Pemberton	1775 10/11/06
EQUIPMENT	MANUFACTURER	MODEL #	RANGE	WYLE #	CALIE LAST	CALIBRATION T DUE	ACCY.
Cylinder Graduated	Pyrex	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%
W-614 Rev. 5/02	Where applicable, the listed Science & Technology. Ce available for inspection upo	1 test equipment has be rrificates and reports c on request. *Equipmer	Where applicable, the listed test equipment has been calibrated using standards which are traccable 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 yle Laboratori verified prior	the National Incess QA files and to use.	stitute of are	