TEST REPORT NO. 56261



TEST, ENGINEERING AND RESEARCH GROUP, SAN BERNARDINO

Pelican Products, Inc. 23215 Early Avenue Torrance, CA 90505 Our Job No.

T56261

Contract

Your P.O. No.

4500001654

Date

November 19, 2008

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 (1) Toolbox, Part No. 0450 and identified as W1, was subjected to Immersion Testing in accordance with MIL-STD-810F, Paragraph 512.4.

One (1) Toolbox, Part No. 0450 and identified as W2, was subjected to Blowing Dust Testing in accordance with MIL-STD-810F, Paragraph 510.4.

Complete test details, including photos and equipment list, and test results are contained in this report.

Test Dates: 11/17/08-11/18/08

STATE OF CALIFORNIA

says:	Douglas G. Anderson being duly sworn, deposes and a That the information contained in this report is the result of complete and fully conducted tests and is to the best of his knowledge true and correct in espects.
SUB by f	SORIBED and sworn to before me this 19 day of 1001, 2008 bouglas G. Anderson proved to me on the basis of satisfactory evidence the person who appeared before me,
	Caulalpurity
	CAROL A. GARRITY Commission # 1791094 Notary Public - California San Bernardino County

1 ...

TEST OPERATIONS

TEST

ENGINEER

M Dover

DEPT. NANAGER

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QUALITY (

ASSURANG

J. Cornejo



Customer	Pelican Products Inc.	Job Ne	o. T56261
		Date	11/17/2008
Specimen	Toolbox		

RECEIVING INSPECTION

Manufa	cturer: Pelic	an Products		
P/N's	0450		S/N's	W1 (Dust Test)
	0450			W2 (Immersion Test)
	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			
How do	oes identificatio	n information ap	opear: (name pla	ate, tag, painted, imprinted, etc.)
Part nu	mber was custom	ner provided.		
Exami			damage, poor veness of identific	workmanship, or other ation.
Insnec				of damage to the specimen(s)
mspec		unless otherwis		or damage to the specimen(s)

recinsp

Inspected By
Sheet No. 1 of 1
Approved With the Date 11/19/08

SB - 614 - Rev. 08/06



Test Title Immersion Job No. T56261 Customer Pelican Products Inc. **Date Started** 11/17/2008 Specimen Toolbox Serial No. See Recv. Insp. Date Comp. 11/17/2008 Part No. See Recv. Insp. Photo Yes **Spec.** MIL-STD-810F **Par.** 512.4 Amb. Temp. 77 ± 18°F

Requirements:

No. of Specimens:

One (1)

Temperature:

Temperature of the test item should be no less than 27°C

above the water temperature immediately before immersion

Conditioning:

2 hours before water exposure

Water Level:

1 m covering depth, measured from the uppermost surface of

the test item to the surface of the water

Soak Duration:

30 minutes

Test Method:

With the test item at standard ambient conditions perform a visual inspection. Prior to conditioning and testing the test item shall be unlatched, opened, closed, and re-latched 10 times. Condition the test item for 2 hours at no less than 27°C above the temperature of the water to be used for immersion.

Immerse the test item in water so that the uppermost point of the test item is no less than 1 m below the surface of the water. The test item shall be tied down using the handles or the tiedown points or weighted with other loaded units stacked upon the test item. The test item shall remain immersed in water for no less than 30 minutes.

Upon completion of the immersion period, remove the test item from the water and wipe the exterior surfaces dry. Perform a visual inspection and check for the presence of water inside the test item. Document all results.

Test Results:

All testing was performed per the Test Method and Requirements stated above. No visible evidence of water penetration or damage to the test specimen was observed upon completion of testing.

Page 1

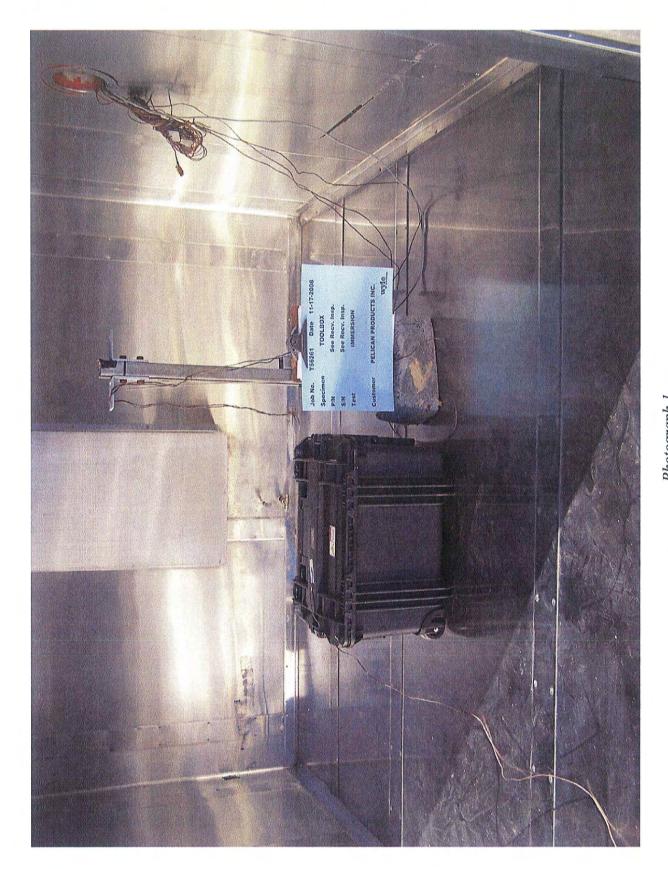
Tested By

Engineer

When Tend 11/19/08

SB - 614A - Rev. 8/06

















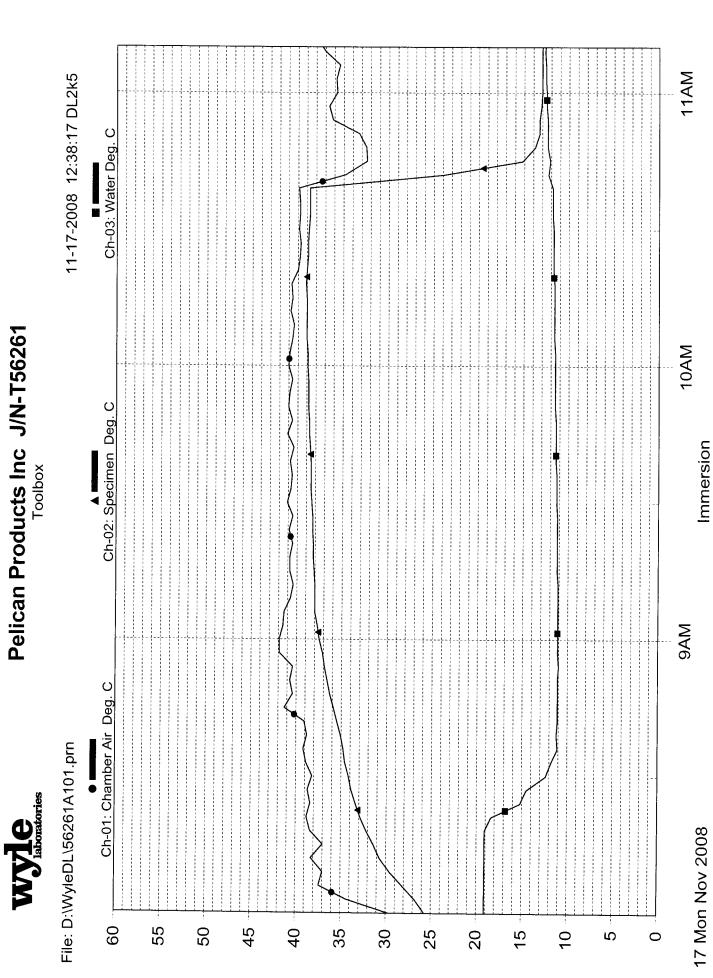












TEST TITLE: Immersion

Date: 11/17/2008 Job No.: T56261 CUSTOMER: Pelican Products Inc.

Technician: I. Garcia 76 11-17-08 Engineer: M. Bovard 746 11/19/08 See Recv. Insp. Serial No.: See Recv. Insp. Specimen: Toolbox Part No.:

		-		,	,			
	ACCY.	Mfg. Spec.	Mfg. Spec.	±2%	Mfg. Spec.	.1 Sec.	Mfg. Spec.	
CALIBRATION	DUE	Calibration *	Calibration *	10/03/2009	10/03/2009	12/18/2008	12/18/2008	
CALIB	LAST	* System	* System	10/03/2008	10/03/2008	06/18/2008	12/18/2007	
# = 1/1/41	W L.L. #	W50713	W50707	W12435	W50701	W10298	W50758	
RANGE		-80 to +240°F & Rh / 8' x 8' x 7'10" / CO2 & LN2	-100° to 240°F	10VDC & Type T TC's	20 Channels Volts or TC's	10 Hrs.	0 to 25 Feet	
MODE! #		Chamber 1	920 / CN9000	2700	7700	63 5010	AL725MAG	
MANUFACTURER		Bally	Watlow / Omega	Keithley	Keithley	Micronta	Lufkin	
		Chamber - Environmental	Controller - Chamber	Multimeter/DAS	Multiplexer Module	Stopwatch	Tape Measure	

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 calibration are verified prior to use.



Test Title Blowing Dust Pelican Products Inc. _____ **Job No.** T56261 Customer Specimen Toolbox **Date Started** 11/17/2008 Part No. Serial No. See Recv. Insp. See Recv. Insp. **Date Comp.** 11/18/2008 Spec. MIL-STD-810F **Photo** Yes **Amb. Temp.** $25 \pm 10^{\circ}$ C **Par.** 510.4

Requirements:

Temperature (°F): 77 ± 3.6 150 ± 3.6 150 ± 3.6 Humidity (%): <30 <30 <30 Air Velocity (ft/min): 1750 ± 175 approx. 300 1750 ± 175 Dust Concentration (g/m³): 10.6 ± 7 none 10.6 ± 7 100% less than 150 μm Dust Size: Total Duration (hrs): 6 Orientation: Most vulnerable face exposed to dust stream

Test Method:

Install the test item in the test chamber and ensure that it is securely connected w/ a grounding strap to facility ground. Verify that no more than 50% of the cross sectional area (normal to the airflow) and 30% of the volume of the test chamber is occupied by the test specimen. Instrument the test item with a thermocouple and photograph the test setup.

Stabilize the chamber conditions to 77 ± 3.6°F and <30% relative humidity. Adjust the air velocity to 1750 \pm 175 ft/min (8.9 m/s). Allow dust to enter the airstream at a rate of 10.6 \pm 7g/m³ $(0.3 \pm 0.2 \text{ g/ft}^3)$. Maintain these conditions for a period of 6 hours. Note: If necessary, the test can be stopped after the first 6-hour period provided that prior to starting the second 6-hour period the chamber conditions are restabilized and held for 1 hour.

At the conclusion of the 6-hour period, stop the dust feeder and reduce the air velocity to approximately 300 ft/min. Raise the chamber temperature to 150 ± 3.6°F with the humidity < 30%. Maintain these conditions for a minimum of 1 hour following stabilization of the chamber.

Adjust the air velocity to 1750 ± 175 ft/min (8.9 m/s) while maintaining a temperature of 150 \pm 3.6°F and relative humidity < 30%. Allow dust to enter the airstream at a rate of 10.6 \pm 7 g/m³ $(0.3 \pm 0.2 \text{ g/ft}^3)$. Maintain these conditions for a period of 6 hours.

Upon completion of the testing, turn off all chamber controls and allow the test item to return to standard ambient conditions and the dust to settle. Remove accumulated dust from the test item 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 dust penetration, as well as evidence of damage or deterioration. Document all results.

(continued)

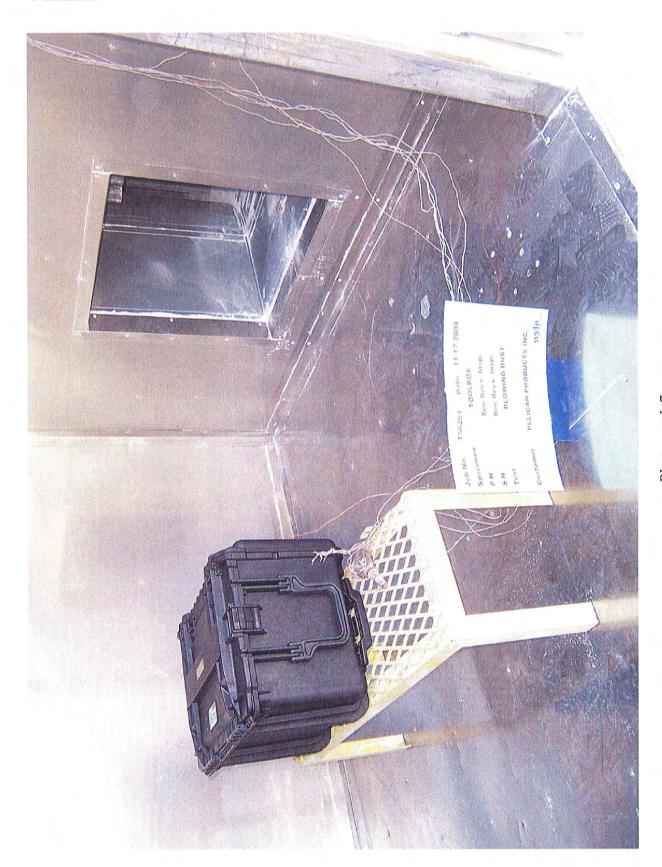
Blowing Dust

Engineer Win Land 11/19/08

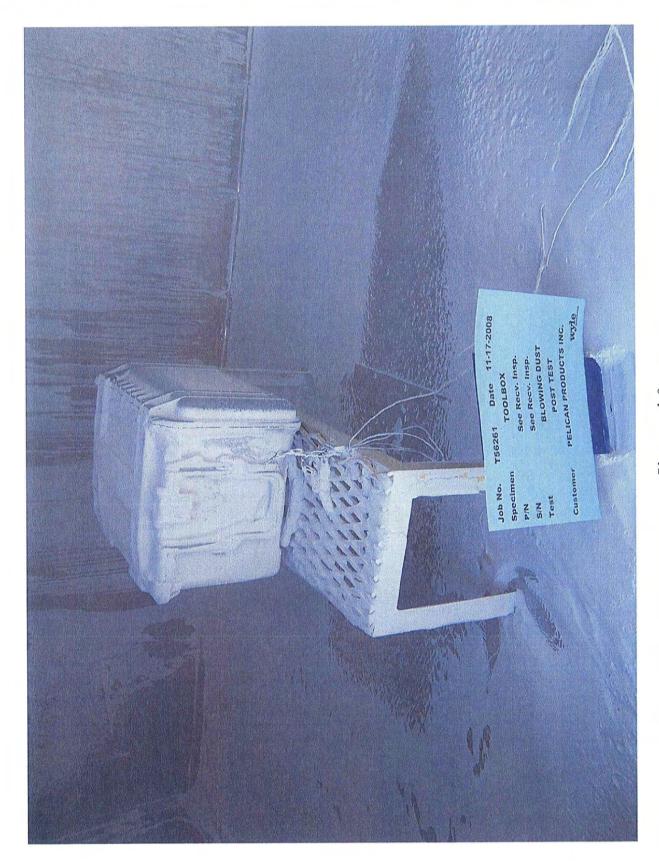


Test Title	Blowing Dust			Date11/	18/2008
Customer	Pelican Products Inc.			_ Job No	T56261
Specimen	Toolbox			Techniciar	S. Paysen 11/18
Part No.	See Recv. Insp.	_ Serial No.	See Recv. Insp.	Engineer _	M. Bovard Zuk 11/19
(Co	ontinued)				
Te	est Results:				
du	The test was performed follo mpletion of the test the accunst was observed in the interionotos were taken before and a	nulated dust w or of the specin	as removed from exterio	r of the test sp	ecimen. No





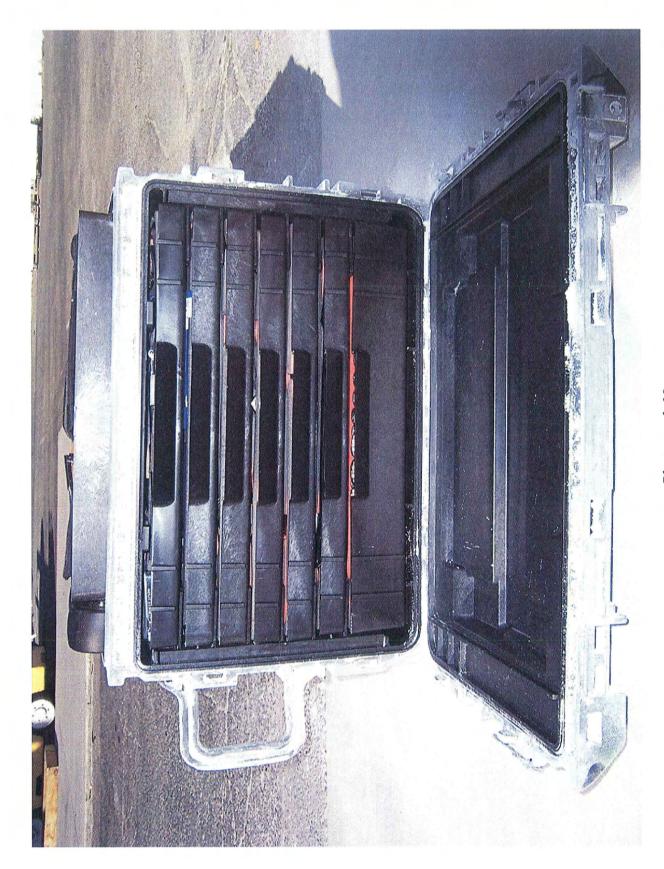




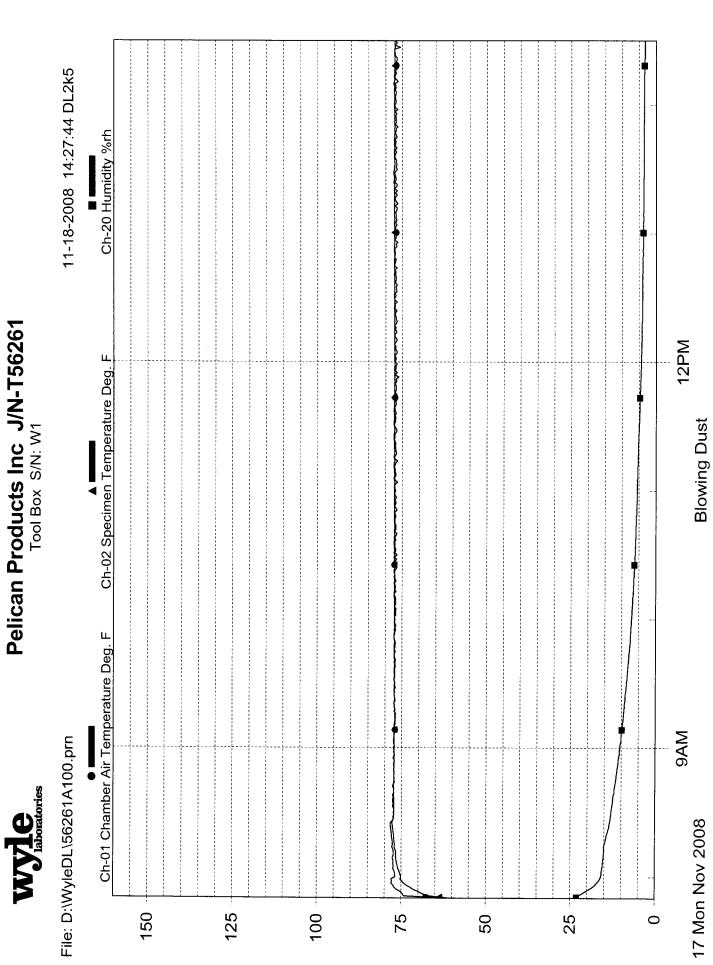




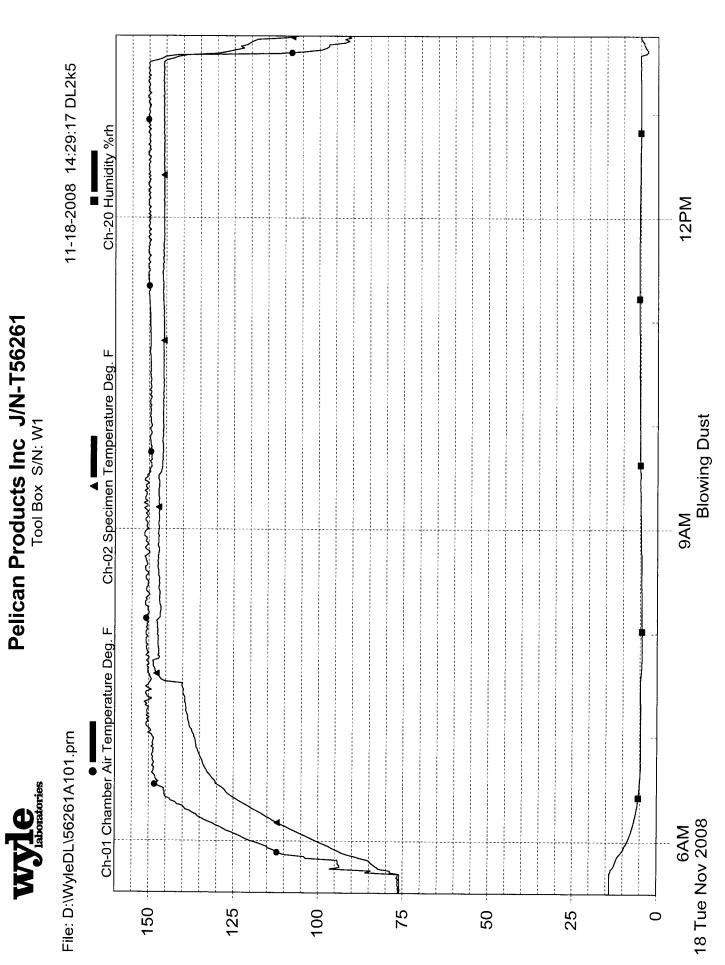




Pelican Products Inc J/N-T56261 Tool Box S/N: W1



Pelican Products Inc J/N-T56261



W Jaboratories TEST

TEST TITLE: Blowing Dust

Technician: S. Paysen Date: 11/14/2008 Job No.: T56261 CUSTOMER: Pelican Products Inc. Specimen: Toolbox

Part No.: See Recv. Insp.		Serial No.:	See Recv. Insp.		ngineer: N	Engineer: M. Bovard 346 u/19/08	30/14/08
EOUIPMENT	MANUFACTURER	MODEL #	RANGE	W/V! F.#	CALIE	CALIBRATION	2004
				# 	LAST	BUE	ACCY.
Anemometer	TSI	8345	0 to 6000 ft/min	W50764	09/11/2008	03/11/2009	3% rdg or ±3 ft/min
Balance	Ohaus	E120	120 Grams	W11886	03/13/2008	03/13/2009	.002 Gram
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.
High Volume Air Sampler	Staplex	TFIA	70CFM	W09584	* System	Calibration *	Mfg. Spec.
Multimeter/DAS	Keithley	2700	10VDC & Type T TC's	W13690	11/04/2008	11/04/2009	±2%
Multiplexer Module	Keithley	0022	20 Channels Volts or TC's	W14903	11/04/2008	11/04/2009	Mfg. Spec.
Rh Probe	Vaisala	HMP135	0 - 100% rH	W11874	08/05/2008	02/02/2009	3%
Stopwatch	Micronta	63 5010	10 Hrs.	W10298	06/18/2008	12/18/2008	.1 Sec.

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