

CERTIFICATE OF ANALYSIS

Date: September 29, 1992

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415

Railcar No.: PLWX 44258

Attention: Quality Control Manager

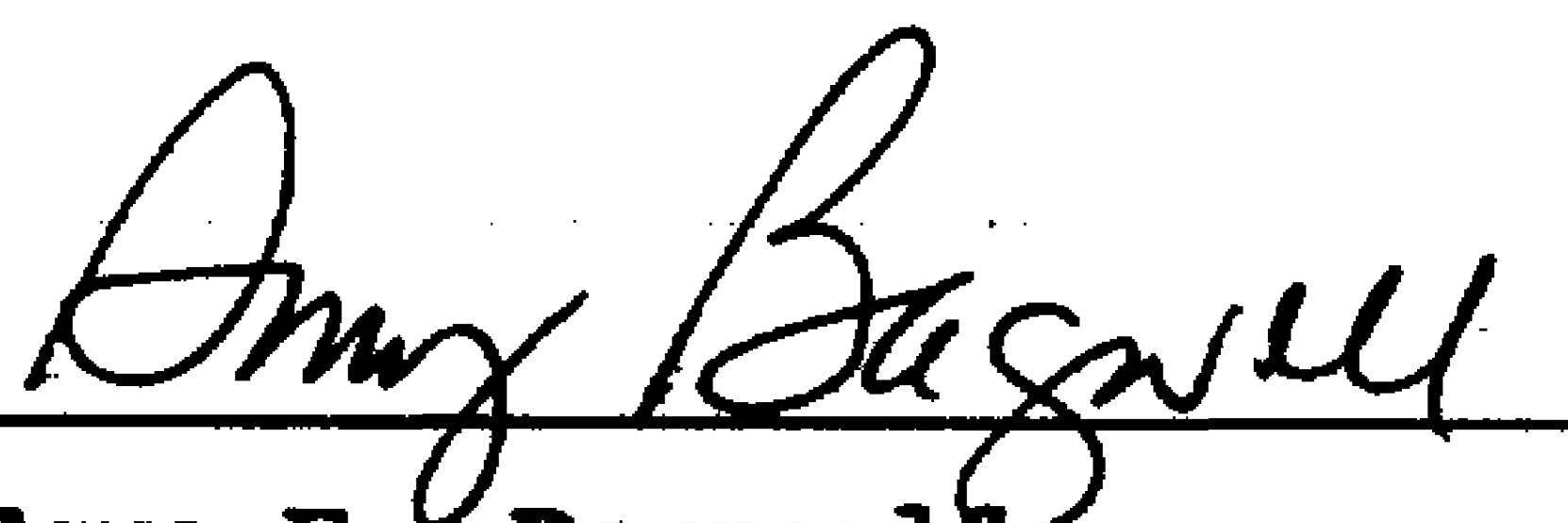
Order No.: 0016404-000

Ship Date: September 28, 1992

Customer P.O. No.: 050-03088

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.3 Max.	0.14
Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Contamination, BLK/BRN	ABR-5A	35/100 Max.	4 / 7
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.504
Brabender Dry Time, Mins.	ABR-7	4.0 - 5.5	4.7
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	0.00
% On 200 Mesh		*NDS	5.2
% On Pan		2.0 Max.	1.8
*Specification is 15.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	0.2 Max.	0.017
Inherent Viscosity	ABR-10	1.00 - 1.04	1.02
METS IR, % of Control	ABR-13	95% Min.	134%


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

~~PLWY~~ PLWYLoad Date: 6/26/92Product: 5415Car No.: 44258Time Logged In: 0100Logged In By: HASilo(s): 690/691Ship Date: 9/28Order No: 0016404-000Customer: United Tech (UTC)CPO 050-03088Mt. Airy, NCmetal (1)

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.12		.11		.12		.14	
Contamination BL	<u>3</u>	<u>4</u>	<u>2</u>	<u>4</u>	<u>3</u>	<u>3</u>	<u>4</u>	<u>3</u>
BR	<u>7</u>	<u>6</u>	<u>5</u>	<u>5</u>	<u>7</u>	<u>5</u>	<u>7</u>	<u>5</u>
Bulk Density	.496		.502		.513		.507	
Hard Particle 5	<u>6</u>	—	—	—	—	—	—	—
7	<u>2 DEL</u>	—	—	—	—	—	—	—
Viscosity	1.022							
RVCM	.017							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>1.55</u>	<u>18.66</u>	<u>14.87</u>	<u>7.88</u>	<u>3.56</u>	<u>2.62</u>	<u>1.92</u>
%P	<u>0.0</u>	<u>3.1</u>	<u>37.3</u>	<u>27.7</u>	<u>15.8</u>	<u>7.1</u>	<u>5.2</u>	<u>1.8</u>

Drytime: 4.7Static Flow: 018.2Avg. Microns: 173.8Color L: 100.63 a 0.40 b 1.41METS: 9967 / 133.6%Technician: MIT & RH

Vista Polymers
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Phone (601) 369-8111

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CERTIFICATE OF ANALYSIS

Date: September 21, 1992

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415

Railcar No.: UTCX 46483

Attention: Quality Control Manager

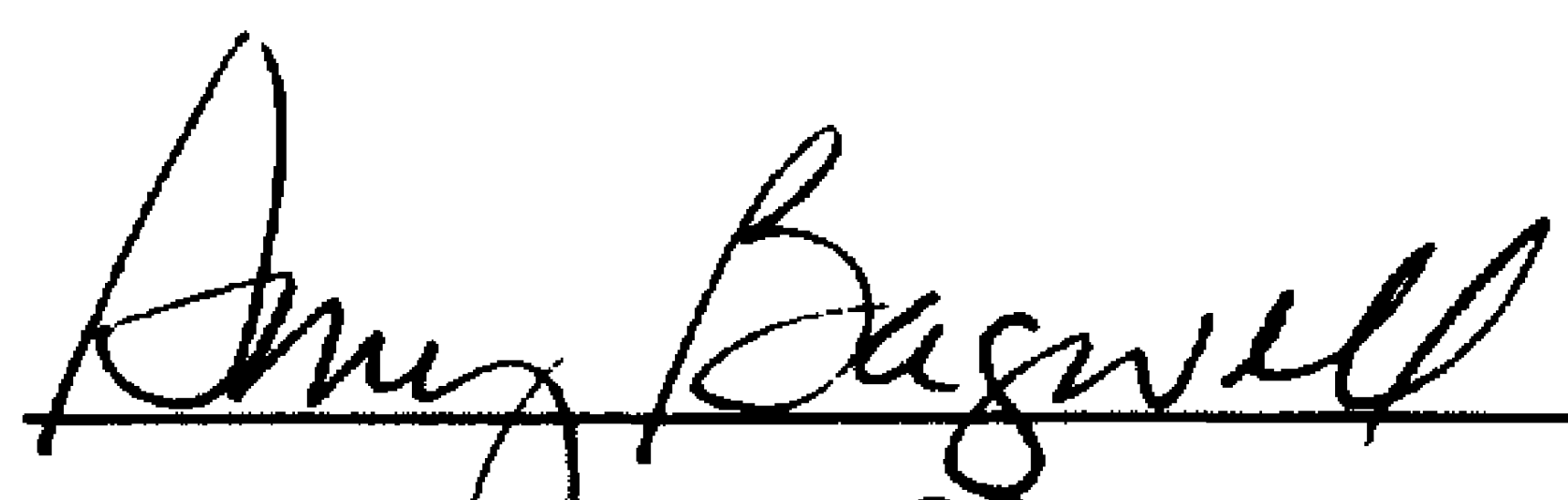
Order No.: 0015945-000

Ship Date: September 11, 1992

Customer P.O. No.: 050-03033

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.3 Max.	0.12
Hard Particles @ 7 Mins.	ABR-12	25 Max.	1
Contamination, BLK/BRN	ABR-5A	35/100 Max.	23 / 8
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.494
Brabender Dry Time, Mins.	ABR-7	4.0 - 5.5	4.7
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	0.00
% On 200 Mesh		*NDS	5.1
% On Pan		2.0 Max.	1.6
*Specification is 15.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	0.2 Max.	0.021
Inherent Viscosity	ABR-10	1.00 - 1.04	1.03
METS IR, % of Control	ABR-13	95% Min.	114%


Amy E. Bagwell
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VAB.0001202434

Vista Polymers

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PVC RAILCAR ANALYSIS

UTC

Load Date: 9-11-92Product: 5415Car No.: 46483Time Logged In: 0600Logged In By: 6Silo(s): 691-690Ship Date: 9/11/92Order No: 0015945-000Customer: UTC, Mt Airy050-03033No metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.12		.11		.12		.12	
Contamination	BL	<u>12</u>	<u>10</u>	<u>23</u>	<u>9</u>	<u>11</u>	<u>8</u>	<u>21</u>
	BR	<u>7</u>	<u>8</u>	<u>8</u>	<u>11</u>	<u>5</u>	<u>10</u>	<u>6</u>
Bulk Density	<u>.494</u>		<u>.492</u>		<u>.502</u>		<u>.488</u>	
Hard Particle	5	<u>3</u>						
	7	<u>1 pc</u>						
Viscosity	<u>1.026</u>							
RVCM	<u>.021</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>1.58</u>	<u>19.13</u>	<u>14.39</u>	<u>7.74</u>	<u>3.71</u>	<u>2.56</u>	<u>0.79</u>
% P	<u>0.0</u>	<u>3.2</u>	<u>38.3</u>	<u>28.8</u>	<u>15.6</u>	<u>7.4</u>	<u>5.1</u>	<u>1.6</u>

Drytime: 4.7 Static Flow: 0.8.4 Avg. Microns: 174.7Color L: 101.14 a 0.03 b 1.18METS: 8689 / 113.9 %Technician: M.T. & R.H.

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CERTIFICATE OF ANALYSIS

Date: September 4, 1992

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415

Railcar No.: PLWX 44723

Attention: Quality Control Manager

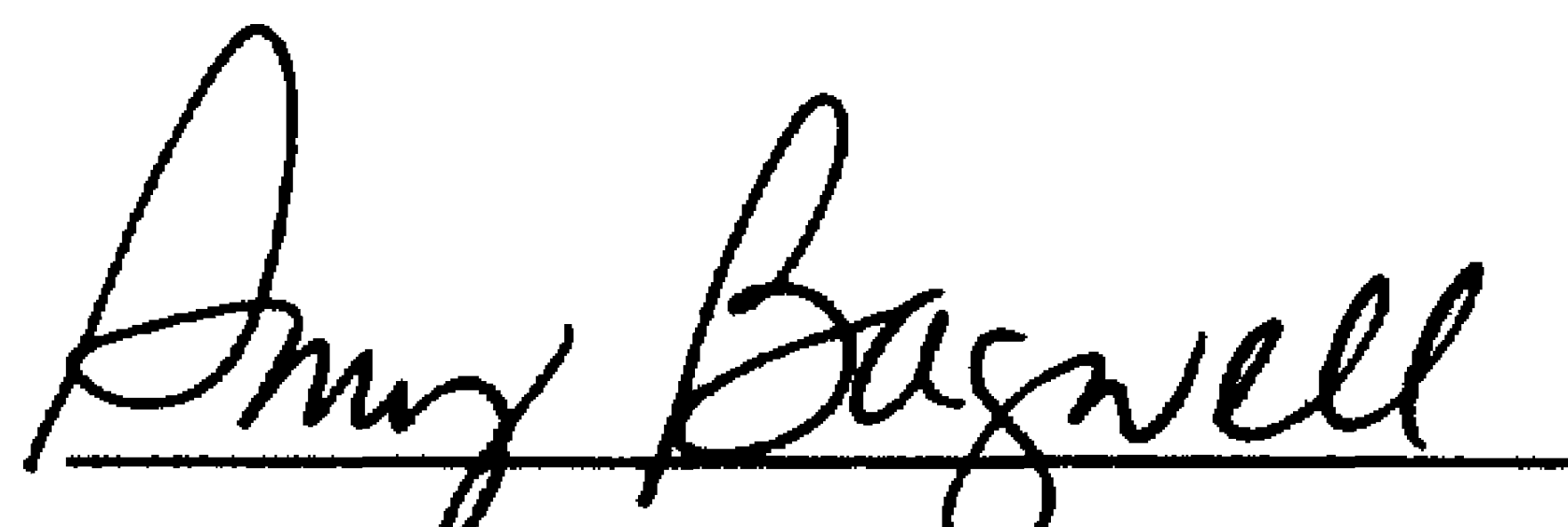
Order No.: 0015461-000

Ship Date: August 31, 1992

Customer P.O. No.: 050-02955

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.13
Bulk Density, GM/CC	ABR-2B	0.496
Brabender Dry Time, Mins.	ABR-7	4.8
Particle Size Distribution	ABR-3	
% On 40 Mesh		0.00
% On 200 Mesh		4.8
% On Pan		1.6
Residual VCM, PPM	ABGC-26	0.011
Inherent Viscosity	ABR-10	1.01
Hard Particle @ 7 Mins.	ABR-12	2
Contamination, BLK/BRN	ABR-5A	8 / 8
METS IR, % of Control	ABR-13	129



Amy E. Bagwell
Laboratory Supervisor

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VAB.0001202436

PVC RAILCAR ANALYSIS

Load Date: 1-29-92Product: 5415Car No.: 44723Time Logged In: 0215Logged In By: MSSilo(s): 190, 191Ship Date: 8/31

Order #

Customer: Essex United Inc050-02955MT Hwyno metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.11		.12		.12		.13	
Contamination	BL	<u>6</u>	<u>7</u>	<u>5</u>	<u>7</u>	<u>8</u>	<u>6</u>	<u>6</u>
	BR	<u>8</u>	<u>10</u>	<u>9</u>	<u>8</u>	<u>9</u>	<u>8</u>	<u>8</u>
Bulk Density	.494		.496		.498		.497	
Hard Particle	5	<u>6</u>						
	7	<u>2 MT</u>						
Viscosity	1.007							
RVCM	<u>.011</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>00</u>	<u>180</u>	<u>18.52</u>	<u>15.39</u>	<u>8.18</u>	<u>3.63</u>	<u>2.41</u>	<u>.80</u>
% P	<u>0.0</u>	<u>1.6</u>	<u>37.0</u>	<u>30.8</u>	<u>16.9</u>	<u>7.3</u>	<u>4.8</u>	<u>1.6</u>

Drytime: 4.8Static Flow: 0 18.7 Avg. Microns: 171.2Color L: 100.95 a 0.04 b 1.47METS: 9964 1128.6%Technician: MT + RH

Vista Polymers
A Division of
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A

CERTIFICATE OF ANALYSIS

Date: *24 August 92*

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415

Trailer No.: *T-380*

Attention: Quality Control Manager

Order No.: *0015245-000*

Ship Date: *24 August 92*

Customer P.O. No.: *050-02935*

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.3 Max.	<u>.11</u>
Contamination, BLK/BRN	ABR-5A	35/100 Max.	<u>3 / 7</u>
Hard Particles @ 7 mins.	ABR-12	25 Max.	<u>1</u>
Bulk Density, gm/cc	ABR-2B	0.460 Min.	<u>.509</u>
Brabender Drytime, mins.	ABR-7	4.0 - 5.5	<u>5.0</u>
Resin Flow Time, seconds	ABR-8	12 Max.	<u>8.1</u>
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	<u>0.0</u>
% On 200 Mesh		*NDS	<u>6.1</u>
% On Pan		2.0 Max.	<u>1.6</u>

*Specification is 15.0% Max. for the 200 Mesh plus Pan.

Residual VCM, ppm	ABGC-26	<u>.001</u>	
Inherent Viscosity	ABR-10	<u>1.02</u>	**
METS IR, % of Control	ABR-13	<u>117</u>	**

** The value for this property is determined by our SQC Program and is not tested on truck shipments.

James M. Gray
Laboratory Supervisor/Lead

(601) 369-8111

VAB.0001202438

PVC BULK TRAILER ANALYSIS

Date 8-24-92 Product 5415 Trailer Number T-380
Customer United Tech Silo 691 Time 1340
Technician MS Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>11</u>		1. <u>3</u>		1. <u>4</u>	1. <u>.509</u>	1. <u>5.0</u>	L = <u>100.98</u>	<u>Flow</u> <u>8/8.1</u>	
	2. <u>7</u>		2. <u>7</u>		2. <u>1.66</u>			A = <u>.06</u>		
								B = <u>1.54</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

Screen Analysis 10 Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>1.45</u>	<u>18.13</u>	<u>14.56</u>	<u>8.04</u>	<u>3.75</u>	<u>3.04</u>	<u>.81</u>	<u>172.1</u>
% on Mesh	<u>0.0</u>	<u>2.9</u>	<u>36.3</u>	<u>29.1</u>	<u>16.5</u>	<u>7.5</u>	<u>6.1</u>	<u>1.6</u>	

Screen Analysis _____ Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____

Vista Polymers
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A

CERTIFICATE OF ANALYSIS

Date: August 20, 1992

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415

Railcar No.: GACX 73408

Attention: Quality Control Manager

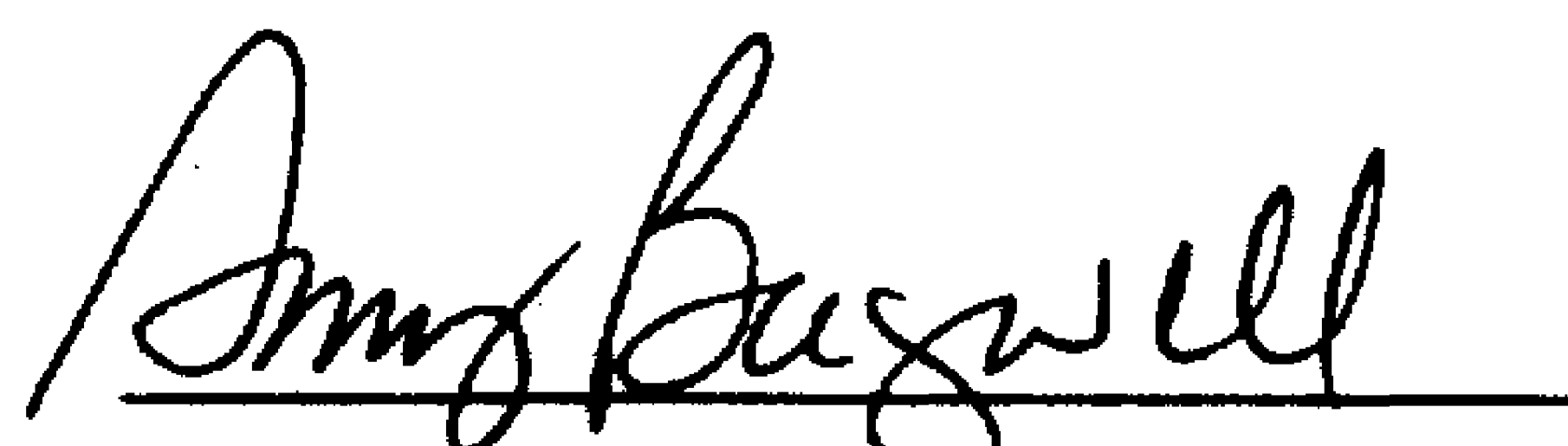
Order No.: 0014890-000

Ship Date: August 17, 1992

Customer P.O. No.: 050-02900

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.12
Bulk Density, GM/CC	ABR-2B	0.496
Brabender Dry Time, Mins.	ABR-7	4.7
Particle Size Distribution	ABR-3	
% On 40 Mesh		0.00
% On 200 Mesh		4.6
% On Pan		1.5
Residual VCM, PPM	ABGC-26	0.014
Inherent Viscosity	ABR-10	1.02
Hard Particle @ 7 Mins.	ABR-12	1
Contamination, BLK/BRN	ABR-5A	4 / 4
METS IR, % of Control	ABR-13	130



Amy E. Bagwell
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VAB.0001202440

Vista Polymers

Highway 25

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PVC RAILCAR ANALYSIS

Load Date: 8-14-92 Product: 5415 Car No.: 73408
 Time Logged In: 0600 Logged In By: ES Silo(s): 690 & 691
 Ship Date: 8/17 Order No: 14890-000 Customer: SA/ES/UTA
050-02900 At Army

No metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.12		.12		.11		.11	
Contamination BL	<u>3</u>	<u>2</u>	<u>4</u>	<u>3</u>	<u>3</u>	<u>2</u>	<u>3</u>	<u>2</u>
BR	<u>6</u>	<u>4</u>	<u>4</u>	<u>6</u>	<u>3</u>	<u>3</u>	<u>4</u>	<u>5</u>
Bulk Density	<u>.493</u>		<u>.500</u>		<u>.498</u>		<u>.495</u>	
Hard Particle ⁵	<u>3.55</u>	—	—	—	—	—	—	—
⁷	<u>1</u>							
Viscosity	<u>1.021</u>							
RVCM	<u>.014</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>1.51</u>	<u>18.33</u>	<u>15.26</u>	<u>8.08</u>	<u>3.55</u>	<u>2.29</u>	<u>.74</u>
%P	<u>0.0</u>	<u>3.0</u>	<u>36.7</u>	<u>30.5</u>	<u>16.6</u>	<u>7.1</u>	<u>4.6</u>	<u>1.5</u>

Drytime: 4.7 Static Flow: 0 / 8.6 Avg. Microns: 173.9

Color L: 100.87 a 0.02 b 1.50

METS: 9457 / 129.6 %

Technician: M.T & KH

VAB.0001202441

Vista Polymers
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Vista Chemical Company

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Phone (601) 369-8111

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CERTIFICATE OF ANALYSIS

Date: 8/18/92

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415

Trailer No.: T-381

Attention: Quality Control Manager

Order No.: 0014978-000

Ship Date: 8/18/92

Customer P.O. No.: 050-02918

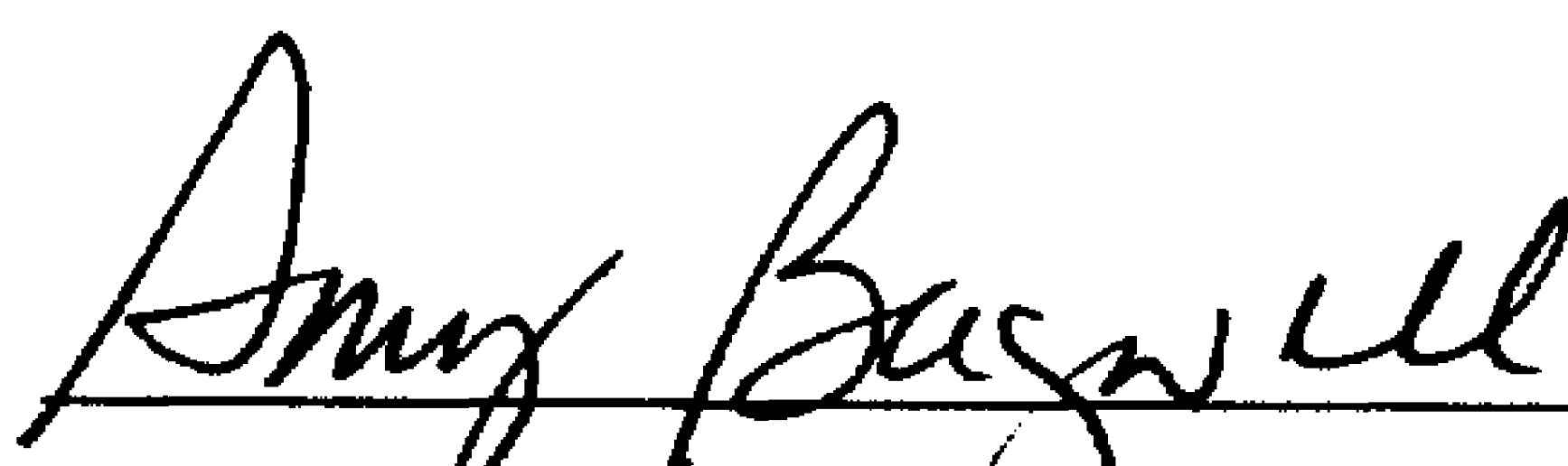
VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.3 Max.	<u>.17</u>
Contamination, BLK/BRN	ABR-5A	35/100 Max.	<u>3 / 6</u>
Hard Particles @ 7 mins.	ABR-12	25 Max.	<u>1</u>
Bulk Density, gm/cc	ABR-2B	0.460 Min.	<u>.516</u>
Brabender Drytime, mins.	ABR-7	4.0 - 5.5	<u>4.9</u>
Resin Flow Time, seconds	ABR-8	12 Max.	<u>9.7</u>
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	<u>0.0</u>
% On 200 Mesh		*NDS	<u>4.2</u>
% On Pan		2.0 Max.	<u>1.6</u>

*Specification is 15.0% Max. for the 200 Mesh plus Pan.

Residual VCM, ppm	ABGC-26	<u>.003</u>
Inherent Viscosity	ABR-10	<u>1.02</u> **
METS IR, % of Control	ABR-13	<u>117</u> **

** The value for this property is determined by our SQC Program and is not tested on truck shipments.


Laboratory Supervisor/Lead

(601) 369-8111

VAB.0001202442

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PVC BULK TRAILER ANALYSIS

Date 8-18-92 Product 5415 Trailer Number F381
Customer LETC. Silo 691 Time 1315-1350
Technician DET + HDL Order No. 0014978-000

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.17</u>		1. <u>3</u>		1. <u>2</u>	1. <u>.516</u>	1. <u>4.9</u>	L <u>10.25</u>	<u>0</u> <u>9.1</u>	
	2.		2. <u>6</u>		2. <u>1.8</u>	2.	2.	A <u>0.01</u>		
								B <u>1.48</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		<u>NO</u> <u>MAN</u>
	2.		2.		2.	2.	2.	A =		
								B =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

Screen Analysis _____ Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.	
Gross Wt.										<u>Micros</u>
Tare										
Net Wt.	<u>0.00</u>	<u>1.93</u>	<u>20.23</u>	<u>14.51</u>	<u>7.41</u>	<u>3.20</u>	<u>2.10</u>	<u>0.80</u>		
% on Mesh	<u>0.0</u>	<u>3.9</u>	<u>40.5</u>	<u>29.0</u>	<u>14.1</u>	<u>6.4</u>	<u>9.2</u>	<u>1.6</u>		<u>178.5</u>

Screen Analysis _____ Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.	
Gross Wt.										
Tare										
Net Wt.										
% on Mesh										

Remarks _____

Vista Polymers
A Division of
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CERTIFICATE OF ANALYSIS

VISTA

Date: July 29, 1992

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415

Railcar No.: UTCX 46555

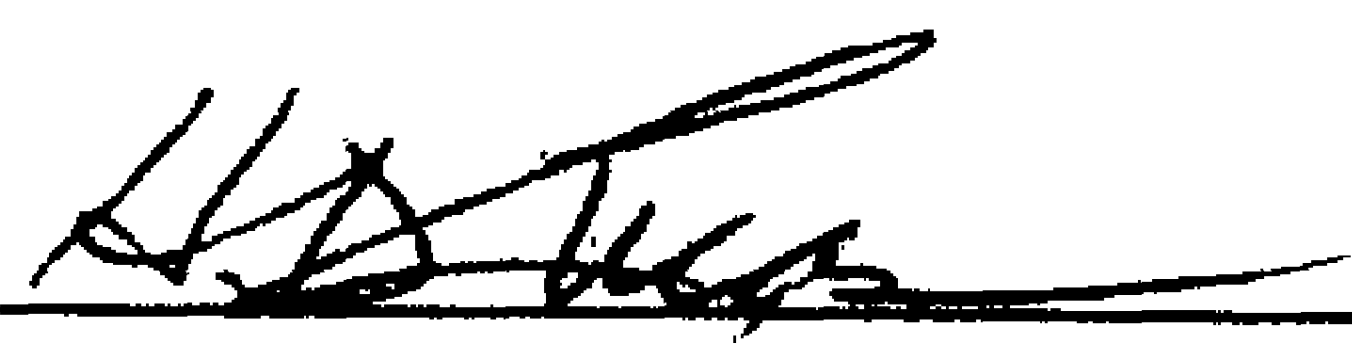
Attention: Quality Control Manager

Order No.: 0014039-000

Ship Date: July 28, 1992

Customer P.O. No.: 050-02816

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.08
Bulk Density, GM/CC	ABR-2B	0.491
Brabender Dry Time, Mins.	ABR-7	4.8
Particle Size Distribution	ABR-3	
% On 40 Mesh		0.00
% On 200 Mesh		4.5
% On Pan		1.5
Residual VCM, PPM	ABGC-26	0.001
Inherent Viscosity	ABR-10	1.03
Hard Particle @ 7 Mins.	ABR-12	2
Contamination, BLK/BRN	ABR-5A	8 / 7
METS IR, % of Control	ABR-13	121


H. D. Lucas
Laboratory Supervisor

(601) 369-3624

VAB.0001202444

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 7/17/92Product: 5415Car No.: 46555Time Logged In: 0600Logged In By: HASilo(s): 690/691Ship Date: 7/28/92Order No: 0014039-000Customer: UTC onlyMOUNT AIRY

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.08		.07		.08		.08	
Contamination	BL	<u>6</u>	<u>5</u>	<u>7</u>	<u>5</u>	<u>8</u>	<u>4</u>	<u>6</u>
	BR	<u>8</u>	<u>6</u>	<u>7</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>7</u>
Bulk Density	.488		.491		.489		.495	
Hard Particle	5	<u>10</u>						
	7	<u>2 DC</u>						
Viscosity	1.029							
RVCM	.001							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>3.27</u>	<u>22.86</u>	<u>11.92</u>	<u>5.90</u>	<u>2.97</u>	<u>2.26</u>	<u>.77</u>
% P	<u>0.0</u>	<u>6.5</u>	<u>45.7</u>	<u>23.8</u>	<u>12.1</u>	<u>5.9</u>	<u>4.5</u>	<u>1.5</u>

Drytime: 4.8 Static Flow: 0.8.5 Avg. Microns: 186.3Color L: 100.77 a 0.01 b 1.42METS: 9789, 121.1%Technician: M.T. & R.H.

Vista Polymers
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Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 7-19-92

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415

Trailer No.: T-377

Attention: Quality Control Manager

Order No.: 0013702-000

Ship Date: 7-19-92

Customer P.O. No.: 050-02784

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.13</u>
Contamination, BLK/BRN	ABR-5A	<u>3.15</u>
Hard Particles @ 7 mins.	ABR-12	<u>25</u>
Bulk Density, gm/cc	ABR-2B	<u>.503</u>
Brabender Drytime, mins.	ABR-7	<u>4.9</u>
Resin Flow Time, tap/sec.	ABR-8	<u>0.18.2</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>6.6</u>
Pan		<u>2.3</u>
Residual VCM, ppm	ABGC-26	<u>.011</u>
Inherent Viscosity	ABR-10	<u>1.01</u> **
METS IR, % of Control	ABR-13	<u>118</u> **

** Values for this property has been determined by our SQC Program
and is not tested on truck shipments.

Melanie Tallie
Laboratory Supervisor/Lead

(601) 369-8111

VAB.0001202446

A

PVC BULK TRAILER ANALYSIS

Date 7-18-92 Product 5415 Trailer Number T-377
 Customer UTC Silo 690 Time 2100
 Technician 6 Order No. 0013702-000

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
<u>NO METAL</u>										
FRONT	1. <u>13</u>		1. <u>3/5</u>	<u>15/16 MB</u>	1. <u>503</u>		1. <u>4.9</u>	L = <u>100.62</u>		
	2.		2.		2.		2.	A = <u>.09</u>		
								B = <u>1.27</u>		<u>0/8.2</u>
MIDDLE	1.		1.		1.		1.	L =		
	2.		2.		2.		2.	A =		
								B =		
END	1.		1.		1.		1.	L =		
	2.		2.		2.		2.	A =		
								B =		

Particle Size Distribution:

Screen Analysis 10 Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.					<u>176.9</u>				
Tare									
Net Wt.	<u>0.00</u>	<u>2.26</u>	<u>20.51</u>	<u>12.38</u>	<u>6.60</u>	<u>3.62</u>	<u>3.29</u>	<u>1.18</u>	
% on Mesh	<u>0.0</u>	<u>4.5</u>	<u>41.0</u>	<u>24.8</u>	<u>13.6</u>	<u>7.2</u>	<u>6.6</u>	<u>2.3</u>	

Screen Analysis Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.	<u>0.0</u>	<u>15.08</u>	<u>87.74</u>	<u>40.42</u>	<u>18.63</u>	<u>8.28</u>	<u>5.94</u>	<u>.85</u>	<u>176.94</u>
Tare									
Net Wt.									
% on Mesh									

Remarks _____

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CERTIFICATE OF ANALYSIS

Date: July 15, 1992

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415

Railcar No.: VIPX 45897

Attention: Quality Control Manager

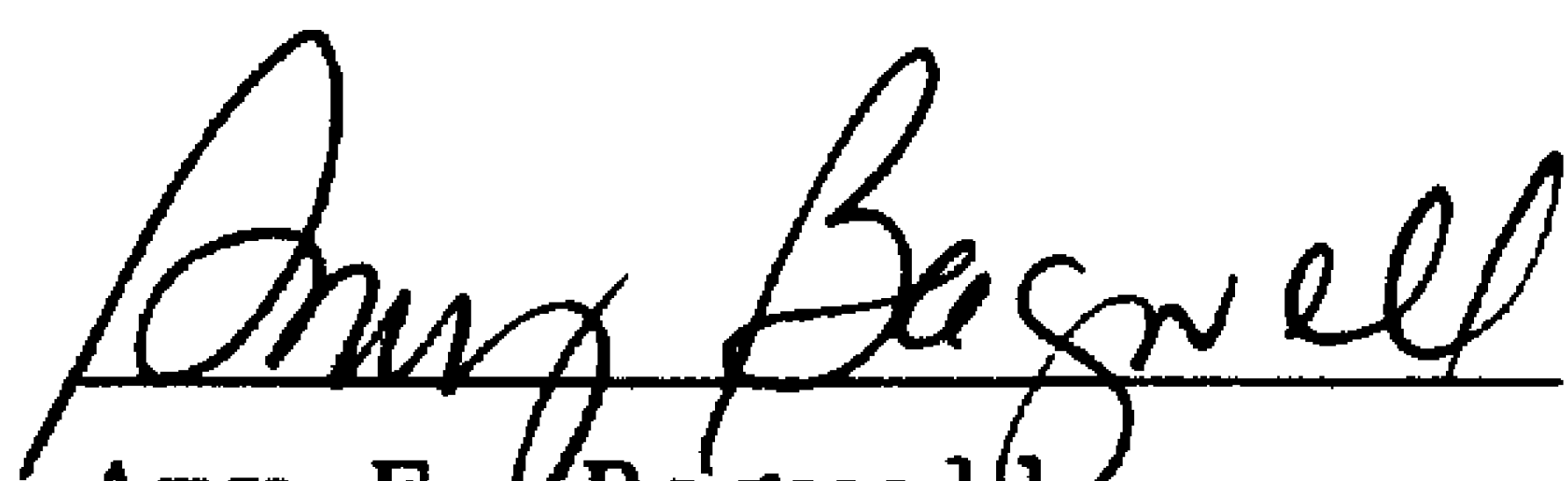
Order No.: 0013462-000

Ship Date: July 10, 1992

Customer P.O. No.: 050-02758

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.14
Bulk Density, GM/CC	ABR-2B	0.491
Brabender Dry Time, Mins.	ABR-7	4.8
Particle Size Distribution	ABR-3	
% On 40 Mesh		0.00
% On 200 Mesh		5.7
% On Pan		1.6
Residual VCM, PPM	ABGC-26	0.071
Inherent Viscosity	ABR-10	1.01
Hard Particle @ 7 Mins.	ABR-12	2
Contamination, BLK/BRN	ABR-5A	17 / 5
METS IR, % of Control	ABR-13	119


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001202448

Vista Polymers

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Aberdeen, MS 39730

CAR NOT LOGGED IN!!!**PVC RAILCAR ANALYSIS**Load Date: 7-6-92Product: 5415Car No.: 45897Time Logged In: 1015Logged In By: D.T.Silo(s): 690+691Ship Date: 7/10Order No: 13462-000Customer: United Tech050-02758MT Only

Compartment	<u>1800</u> <u>A</u>		<u>1800</u> <u>CA</u>		<u>CB</u>		<u>B</u>	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.14		.12		.13		.13	
Contamination	BL	<u>7</u>	<u>7</u>	<u>4</u>	<u>3</u>	<u>6</u>	<u>6</u>	<u>17</u>
	BR	<u>2</u>	<u>4</u>	<u>6</u>	<u>7</u>	<u>2</u>	<u>2</u>	<u>5</u>
Bulk Density	.490		.495		.491		.489	
Hard Particle	5	<u>8</u>	—	—	—	—	—	—
	7	<u>2</u> HA	—	—	—	—	—	—
Viscosity	1.009							
RVCM	.071							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>2.52</u>	<u>20.36</u>	<u>12.73</u>	<u>7.02</u>	<u>3.58</u>	<u>2.84</u>	<u>.82</u>
% P	<u>0.0</u>	<u>5.0</u>	<u>40.7</u>	<u>25.5</u>	<u>14.3</u>	<u>7.2</u>	<u>5.7</u>	<u>1.6</u>

Drytime: 4.8Static Flow: 0 18.3Avg. Microns: 179.0Color L: 100.97 a -0.02 b 1.59METS: 9620, 119.0 %Technician: MT & HA

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CERTIFICATE OF ANALYSIS

Date: June 23, 1992

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415
Railcar No.: VIPX 45900

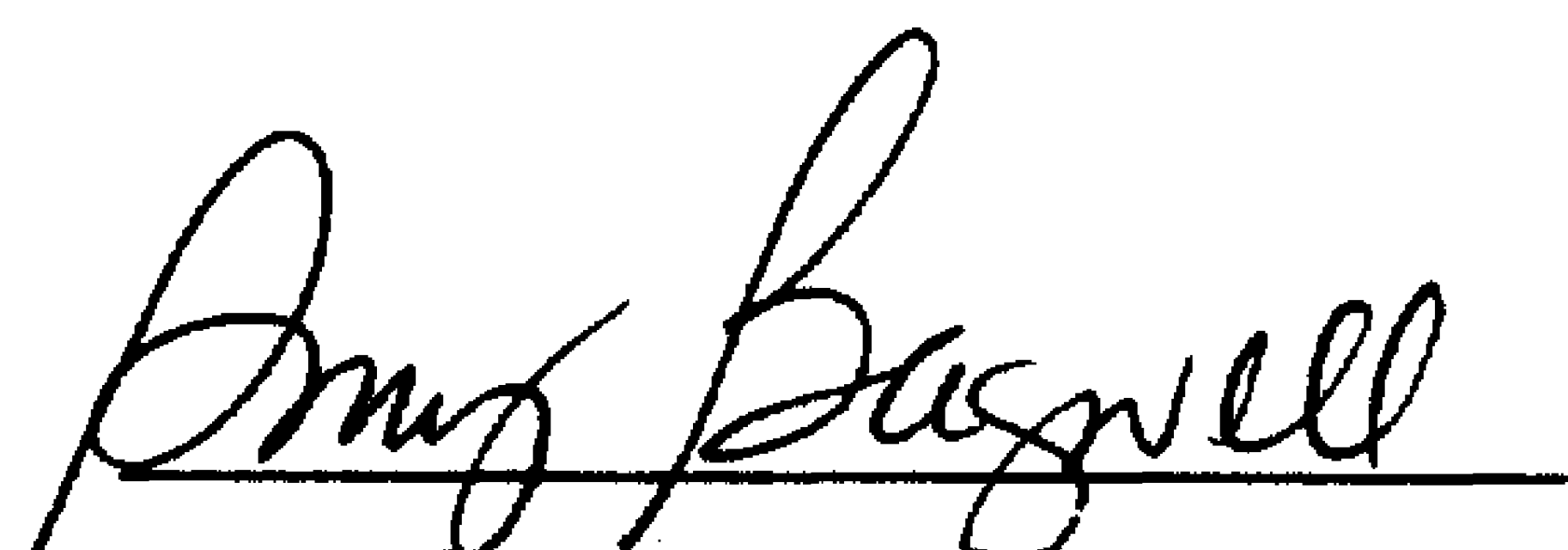
Attention: Quality Control Manager

Order No.: 0012622-000

Ship Date: June 19, 1992

Customer P.O. No.: 050-02696

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.13
Bulk Density, GM/CC	ABR-2B	0.499
Brabender Dry Time, Mins.	ABR-7	4.7
Particle Size Distribution	ABR-3	
% On 40 Mesh		0.00
% On 200 Mesh		4.8
% On Pan		1.6
Residual VCM, PPM	ABGC-26	0.009
Inherent Viscosity	ABR-10	1.00
Hard Particle @ 7 Mins.	ABR-12	2
Contamination, BLK/BRN	ABR-5A	5 / 6
METS IR, % of Control	ABR-13	115


Amy E. Bagwell
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PVC RAILCAR ANALYSIS

Load Date: 6-18-92Product: 5415Car No.: 45900Time Logged In: 0600Logged In By: ESSilo(s): 690, 691Ship Date: 6/19Order No: 12622-000Customer: ~~UTC~~ UTC, M+ Hwy050-02896Metal (1)

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.03		.12		.13		.11	
Contamination								
BL	<u>4</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>3</u>	<u>4</u>	<u>3</u>
BR	<u>8</u>	<u>7</u>	<u>5</u>	<u>7</u>	<u>6</u>	<u>8</u>	<u>5</u>	<u>6</u>
Bulk Density	.499		.500		.502		.496	
Hard Particle								
5	<u>12</u>	—	—	—	—	—	—	—
7	<u>2</u>	—	—	—	—	—	—	—
Viscosity	1.004							
RVCN	.009							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.37</u>	<u>13.64</u>	<u>17.51</u>	<u>10.92</u>	<u>4.35</u>	<u>2.42</u>	<u>.80</u>
% P	<u>0.0</u>	<u>.7</u>	<u>27.3</u>	<u>35.0</u>	<u>21.9</u>	<u>8.7</u>	<u>4.8</u>	<u>1.6</u>

Drytime: 4.7Static Flow: 0 18.6 Avg. Microns: 162.7Color L: 101.07 a 0.02 b 1.34METS: 8718 / 114.8 %Technician: MT & RH

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CERTIFICATE OF ANALYSIS

VISTA

Date: June 8, 1992

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415

Railcar No.: ACFX 53666

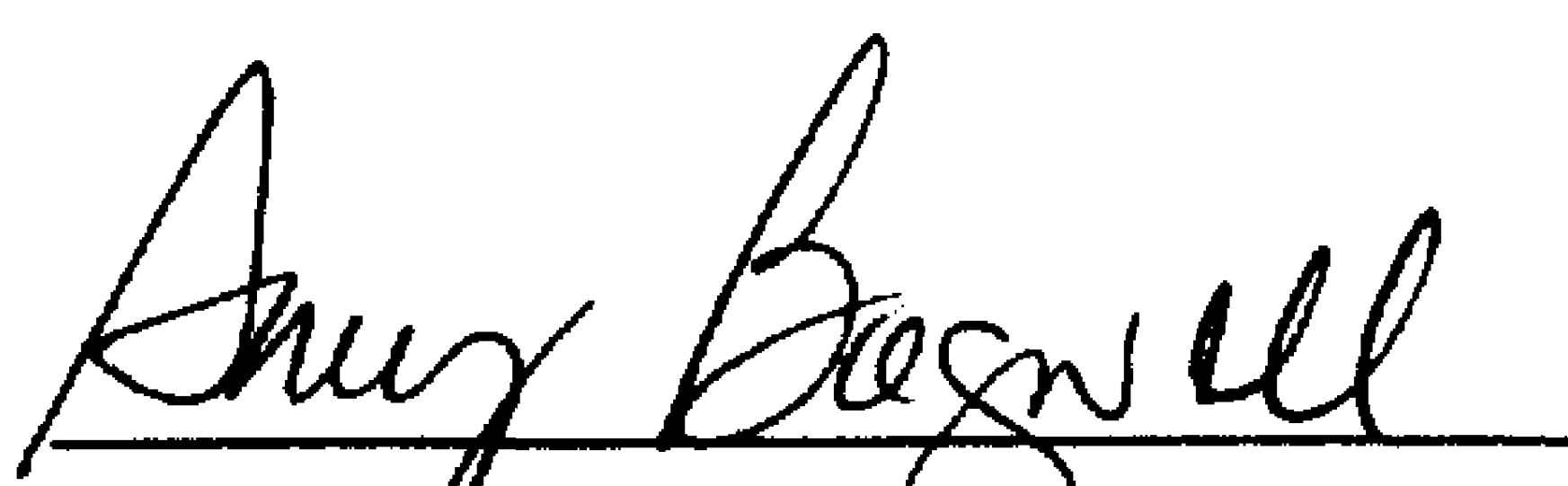
Attention: Quality Control Manager

Order No.: 0011990-000

Ship Date: June 3, 1992

Customer P.O. No.: 050-02610

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.19
Bulk Density, GM/CC	ABR-2B	0.511
Brabender Dry Time, Mins.	ABR-7	4.8
Particle Size Distribution	ABR-3	
% On 40 Mesh		0.00
% On 200 Mesh		6.4
% On Pan		1.8
Residual VCM, PPM	ABGC-26	0.024
Inherent Viscosity	ABR-10	1.01
Hard Particle @ 7 Mins.	ABR-12	1
Contamination, BLK/BRN	ABR-5A	7 / 8
METS IR, % of Control	ABR-13	113



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001202452

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 5-21-92 Product: 5415 Car No.: 53666
 Time Logged In: 0600 Logged In By: CS Silo(s): 690, 691
 Ship Date: 6/3 Order No: 11900-000 Customer: United Tech
050-02610 PH Army

metal (1)

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.19		.10		.08		.12	
Contamination	BL	<u>6</u>	<u>5</u>	<u>7</u>	<u>7</u>	<u>7</u>	<u>5</u>	<u>6</u>
	BR	<u>8</u>	<u>5</u>	<u>8</u>	<u>8</u>	<u>7</u>	<u>8</u>	<u>9</u>
Bulk Density	.502		.507		.523		.510	
Hard Particle	5	<u>2</u>	—	—	—	—	—	—
	7	<u>155</u>	—	—	—	—	—	—
Viscosity	1.013							
RVCM	.024							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>2.12</u>	<u>18.15</u>	<u>13.30</u>	<u>8.03</u>	<u>4.05</u>	<u>3.18</u>	<u>0.92</u>
% P	<u>00</u>	<u>4.2</u>	<u>36.3</u>	<u>26.6</u>	<u>16.6</u>	<u>8.1</u>	<u>6.4</u>	<u>1.8</u>

Drytime: 4.8 Static Flow: 0, 9.5 Avg. Microns: 173.6

Color L: 101.38 a -0.07 b 1.26

METS: 9147, 113.1 %

Technician: M.T & RH

VAB.0001202453

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A

CERTIFICATE OF ANALYSIS

Date: May 22, 1992

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415

Railcar No.: PLCX 43865

Attention: Quality Control Manager

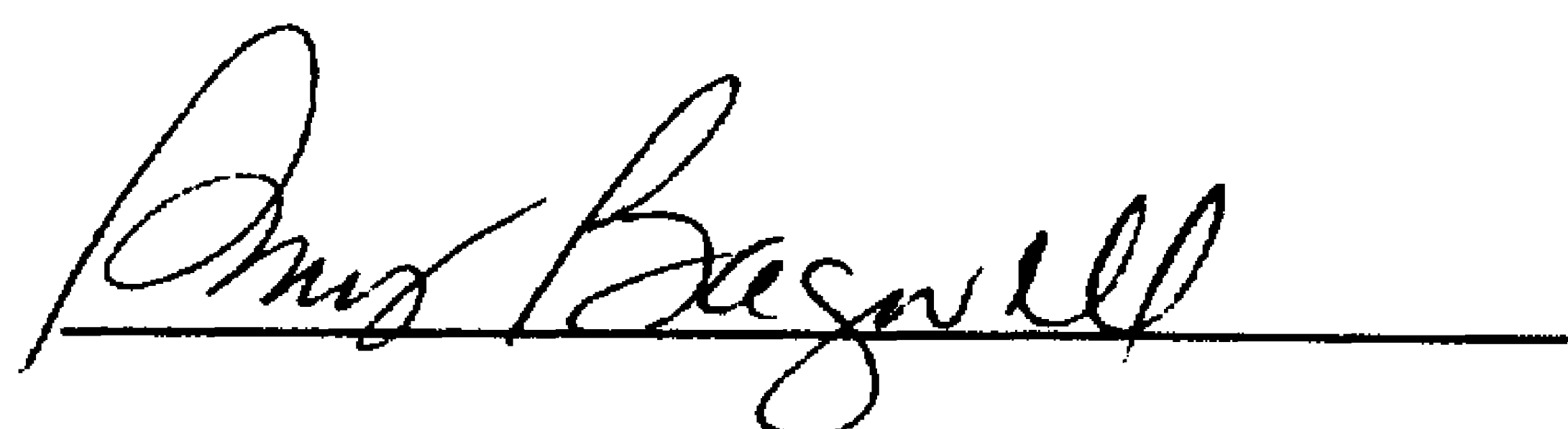
Order No.: 0011157-000

Ship Date: May 18, 1992

Customer P.O. No.: 050-02442

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.23
Bulk Density, GM/CC	ABR-2B	0.517
Brabender Dry Time, Mins.	ABR-7	4.8
Particle Size Distribution	ABR-3	
% On 40 Mesh		0.00
% On 200 Mesh		4.7
% On Pan		1.7
Residual VCM, PPM	ABGC-26	0.020
Inherent Viscosity	ABR-10	1.01
Hard Particle @ 7 Mins.	ABR-12	2
Contamination, BLK/BRN	ABR-5A	8 / 7
METS IR, % of Control	ABR-13	119



Laboratory Supervisor

(601) 369-3624

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Vista Polymers

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PVC RAILCAR ANALYSIS

Load Date: 5-14-92 Product: 5415 Car No.: 43865
 Time Logged In: 0500 Logged In By: M.T. Silo(s): 690-691
 Ship Date: 5/18 Order No: 11157-000 Customer: ESW UTC
056-02442 Mt Airy

Normal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.23		.21		.23		.23	
Contamination	BL	<u>5</u>	<u>4</u>	<u>8</u>	<u>6</u>	<u>5</u>	<u>6</u>	<u>5</u>
	BR	<u>6</u>	<u>3</u>	<u>7</u>	<u>6</u>	<u>8</u>	<u>5</u>	<u>4</u>
Bulk Density	.516		.514		.523		.516	
Hard Particle	5	<u>4</u>	—	—	—	—	—	—
	7	<u>2 HX</u>	—	—	—	—	—	—
Viscosity	1.013							
RVCM	.020							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>2.30</u>	<u>22.68</u>	<u>12.46</u>	<u>6.50</u>	<u>3.15</u>	<u>2.33</u>	<u>0.86</u>
%	<u>0.0</u>	<u>4.6</u>	<u>45.4</u>	<u>24.9</u>	<u>12.4</u>	<u>6.3</u>	<u>4.7</u>	<u>1.7</u>

Drytime: 4.8 Static Flow: 0, 9.2 Avg. Microns: 182.2

Color L: 100.63 a -0.03 b 1.38

METS: 9291, 119.4%

Technician: D.T. + HPL

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Phone (601) 369-8111

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CERTIFICATE OF ANALYSIS

Date: 4/29/92

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415

VISTA

Trailer No.: T-377

Attention: Quality Control Manager

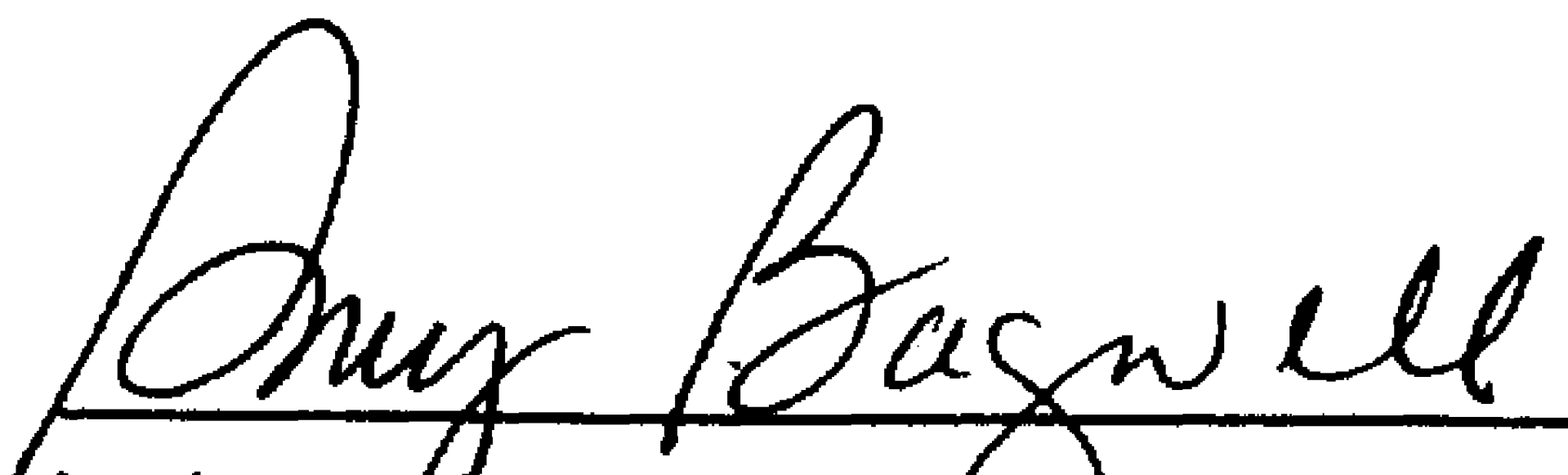
Order No.: 0010419-000

Ship Date: 4/29/92

Customer P.O. No.: 050-02464

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.03</u>
Contamination, BLK/BRN	ABR-5A	<u>3, 5</u>
Hard Particles @ 7 mins.	ABR-12	<u>1</u>
Bulk Density, gm/cc	ABR-2B	<u>.491</u>
Brabender Drytime, mins.	ABR-7	<u>4.8</u>
Resin Flow Time, tap/sec.	ABR-8	<u>0, 10.0</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>5.3</u>
Pan		<u>1.7</u>
Residual VCM, ppm	ABGC-26	<u>.030</u>
Inherent Viscosity	ABR-10	<u>1.02</u> **
METS IR, % of Control	ABR-13	<u>123</u> **

** Values for this property has been determined by our SQC Program
and is not tested on truck shipments.


Laboratory Supervisor/Lead

(601) 369-8111

VAB.0001202456

PVC BULK TRAILER ANALYSIS

Date 4-28-92 Product 5415 Trailer Number T-377
 Customer United Tech Silo Silo 690-691 Time 1900
 Technician M.T. + R.H. Order No. 0010419-000

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.03</u>		1. <u>3</u>		1. <u>3</u>	1. <u>mt. 491</u>	1. <u>4.8</u>	L = <u>100.93</u>	<u>0</u> 10.0	<u>.030</u>
	2.		2. <u>5</u>		2.			A = <u>0.04</u>		
MIDDLE	1.		1.		1.			L =	<u>0</u> <u>10.0</u>	
	2.		2.		2.			A =		
END	1.		1.		1.			L =		
	2.		2.		2.			A =		
								B =		

Particle Size Distribution:

Screen Analysis _____ Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>0.0</u>	<u>.54</u>	<u>18.78</u>	<u>14.94</u>	<u>8.37</u>	<u>3.86</u>	<u>2.63</u>	<u>.83</u>	<u>micron 170.0</u>
% on Mesh	<u>0.0</u>	<u>1.1</u>	<u>37.6</u>	<u>29.9</u>	<u>16.7</u>	<u>7.7</u>	<u>5.3</u>	<u>1.7</u>	

Screen Analysis _____ Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____

VAB.0001202457

Vista Polymers
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A

CERTIFICATE OF ANALYSIS

VISTA

Date: 5/7/92

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415

Railcar No.: UTCX 46550

Attention: Quality Control Manager

Order No.: 0010666-000

Ship Date: 5/5/92

Customer P.O. No.: 050-02485

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.04
Bulk Density, GM/CC	ABR-2B	0.499
Brabender Dry Time, Mins.	ABR-7	4.8
Particle Size Distribution	ABR-3	
% On 40 Mesh		0.00
% On 200 Mesh		4.3
% On Pan		1.3
Residual VCM, PPM	ABGC-26	0.026
Inherent Viscosity	ABR-10	1.03
Hard Particle @ 7 Mins.	ABR-12	2
Contamination, BLK/BRN	ABR-5A	6 / 8
METS IR, % of Control	ABR-13	120



H.D. Lucas
Laboratory Supervisor

(601) 369-3624

VAB.0001202458

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

UTCX

Load Date: 4-30-92Product: 5415Car No.: 46550Time Logged In: 2300Logged In By: MTSilo(s): 690-681Ship Date: 5/5/92Order No: 0010666-000Customer: UTC OnlyMOUNT ALEX

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.03		.04		.04		.04	
Contamination BL	<u>6</u>	<u>5</u>	<u>4</u>	<u>4</u>	<u>6</u>	<u>8</u>	<u>4</u>	<u>6</u>
BR	<u>8</u>	<u>7</u>	<u>3</u>	<u>8</u>	<u>8</u>	<u>8</u>	<u>9</u>	<u>9</u>
Bulk Density	.499		.500		.500		.497	
Hard Particle 5	<u>10</u>	—	—	—	—	—	—	—
7	<u>2 pct</u>							
Viscosity	1.025							
RVCM	.026							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.98</u>	<u>20.58</u>	<u>14.78</u>	<u>7.54</u>	<u>3.12</u>	<u>2.14</u>	<u>.66</u>
% P	<u>0.0</u>	<u>2.0</u>	<u>41.2</u>	<u>29.6</u>	<u>15.4</u>	<u>6.2</u>	<u>4.3</u>	<u>1.3</u>

Drytime: 4.8Static Flow: 0.19.7 Avg. Microns: 175.7Color L: 100.92 a 0.28 b 1.19METS: 9300, 119.5%Technician: MT & KH

VAB.0001202459

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 4-26-92

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415

Trailer No.: T-381

Attention: Quality Control Manager

Order No.: 00/0231-000

Ship Date: 4-26-92

Customer P.O. No.: 050-02447

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.08</u>
Contamination, BLK/BRN	ABR-5A	<u>3 / 6</u>
Hard Particles @ 7 mins.	ABR-12	<u>1</u>
Bulk Density, gm/cc	ABR-2B	<u>1.504</u>
Brabender Drytime, mins.	ABR-7	<u>4.9</u>
Resin Flow Time, tap/sec.	ABR-8	<u>019.4</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>3.9</u>
Pan		<u>1.5</u>
Residual VCM, ppm	ABGC-26	<u>016</u>
Inherent Viscosity	ABR-10	<u>1.02</u> **
METS IR, % of Control	ABR-13	<u>123</u> **

** Values for this property has been determined by our SQC Program
and is not tested on truck shipments.

McLain Talley
Laboratory Supervisor/Lead

(601) 369-8111

VAB.0001202460

PVC BULK TRAILER ANALYSIS

Date 4-24-92 Product 545 Trailer Number T-381
 Customer U.T.R. Silo 690 Time 2400-0115
 Technician D.T. + HDL Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. 08		1. 3/6		1. 2/1000	1. 504	1. 4.9	L = 10.04 A = 0.05 B = 1.32	0.94	
	2.		2.		2.	2.	2.			
MIDDLE	1.		1.		1.	1.	1.	L =		No Metal
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	B =		
	2.		2.		2.	2.	2.	L =		
								A =		
								B =		

Particle Size Distribution:

Screen Analysis _____ Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

									Pan	Glassy Part.
Mesh Size	40	60	80	100	120	140	200			
Gross Wt.										micron
Tare										
Net Wt.	0.00	2.41	24.34	1234	5.93	2.58	1.94	0.74		
% on Mesh	0.0	4.8	48.7	24.7	11.2	5.2	3.9	1.5		185.9

Screen Analysis _____ Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

									Pan	Glassy Part.
Mesh Size	40	60	80	100	120	140	200			
Gross Wt.										
Tare										
Net Wt.										
% on Mesh										

Remarks _____

VAB.0001202461

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 3-29-92

Customer: United Technologies
2500 Highway 6E
Iowa City, IA 52240

Product: 5415

VISTA

Trailer No.: T-378

Attention: Quality Control Manager

Order No.: 0008884-000

Ship Date: 3-29-92

Customer P.O. No.: 065083

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.06</u>
Contamination, BLK/BRN	ABR-5A	<u>7 1 10</u>
Hard Particles @ 7 mins.	ABR-12	<u>6</u>
Bulk Density, gm/cc	ABR-2B	<u>.494</u>
Brabender Drytime, mins.	ABR-7	<u>4.7</u>
Resin Flow Time, tap/sec.	ABR-8	<u>0 1 12.0</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>4.4</u>
Pan		<u>1.2</u>
Residual VCM, ppm	ABGC-26	<u>.016</u>
Inherent Viscosity	ABR-10	<u>1.02</u> **
METS IR, % of Control	ABR-13	<u>118</u> **

** Values for this property has been determined by our SQC Program
and is not tested on truck shipments.

Melvin Tollie
Laboratory Supervisor/Lead

(601) 369-8111

VAB.0001202462

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 3/23/92

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415

Trailer No.: T-658

Attention: Quality Control Manager

Order No.: 0008695-002

Ship Date: 3/23/92

Customer P.O. No.: 050-02321

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.10</u>
Contamination, BLK/BRN	ABR-5A	<u>4, 6</u>
Hard Particles @ 7 mins.	ABR-12	<u>2</u>
Bulk Density, gm/cc	ABR-2B	<u>.508</u>
Brabender Drytime, mins.	ABR-7	<u>4.9</u>
Resin Flow Time, tap/sec.	ABR-8	<u>0, 11.6</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>4.5</u>
Pan		<u>1.6</u>
Residual VCM, ppm	ABGC-26	<u>.032</u>
Inherent Viscosity	ABR-10	<u>1.02</u> **
METS IR, % of Control	ABR-13	<u>118</u> **

** Values for this property has been determined by our SQC Program
and is not tested on truck shipments.


Laboratory Supervisor/Lead

(601) 369-8111

VAB.0001202464

PVC BULK TRAILER ANALYSIS

A

Date 3-23-92 Product 5415 Trailer Number T-658
 Customer UTC Silo 690 Time 0815
 Technician MJ Order No. 0008695-002

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>10</u>		1. <u>4</u>		1. <u>2</u>	1. <u>.508</u>	1. <u>4.9</u>	L = <u>101.16</u>	<u>Flow</u> <u>11.6</u>	
	2.		2.		2.	2.	2.	A = <u>-.13</u>		
								B = <u>1.15</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

Screen Analysis 10 Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>.51</u>	<u>21.86</u>	<u>13.97</u>	<u>7.14</u>	<u>3.38</u>	<u>2.27</u>	<u>.80</u>	
% on Mesh	<u>0.0</u>	<u>1.0</u>	<u>43.7</u>	<u>27.9</u>	<u>14.5</u>	<u>6.8</u>	<u>4.5</u>	<u>1.6</u>	

Screen Analysis	Min.	On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb							
	<u>3.35</u>	<u>93.52</u>	<u>45.47</u>	<u>19.86</u>	<u>7.82</u>	<u>4.05</u>	<u>.39</u>		<u>174.46</u>
Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____

VAB.0001202465

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 3/23/92

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415

Trailer No.: T-377

Attention: Quality Control Manager

Order No.: 0008695-000

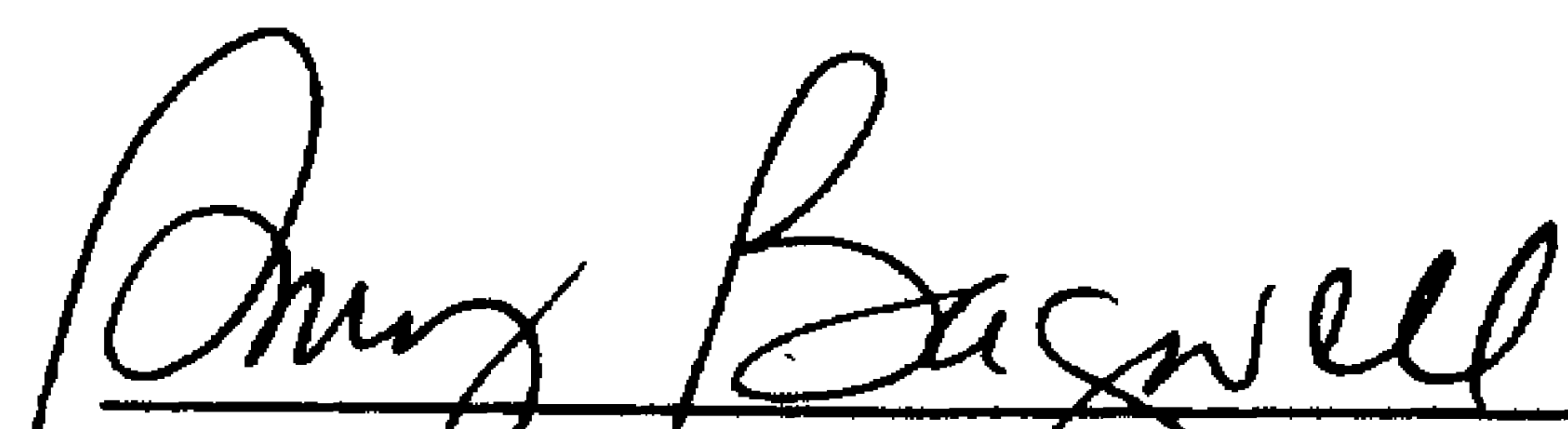
Ship Date: 3/22/92

Customer P.O. No.: 050-02321

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.13</u>
Contamination, BLK/BRN	ABR-5A	<u>2, 4</u>
Hard Particles @ 7 mins.	ABR-12	<u>1</u>
Bulk Density, gm/cc	ABR-2B	<u>.509</u>
Brabender Drytime, mins.	ABR-7	<u>5.0</u>
Resin Flow Time, tap/sec.	ABR-8	<u>0, 9.8</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>4.4</u>
Pan		<u>1.5</u>
Residual VCM, ppm	ABGC-26	<u>.027</u>
Inherent Viscosity	ABR-10	<u>1.02</u> **
METS IR, % of Control	ABR-13	<u>118</u> **

** Values for this property has been determined by our SQC Program
and is not tested on truck shipments.


Laboratory Supervisor/Lead

(601) 369-8111

VAB.0001202466

PVC BULK TRAILER ANALYSIS

A 1

Date 3-21-92 Product 5415 Trailer Number T-377
 Customer UTC Silo 690 Time 1115
 Technician Co + ES Order No. 0008695-000

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>13</u>		1. <u>2/4</u>		1. <u>4/1</u>	1. <u>.509</u>	1. <u>5.0</u>	L = <u>101.05</u>		
	2.		2.		2.	2.	2.	A = <u>.17</u>		
MIDDLE	1.		1.		1.	1.	1.	B = <u>1.28</u>		<u>9/14.5</u>
	2.		2.		2.	2.	2.	L =		
END	1.		1.		1.	1.	1.	A =		<u>9/9.8</u>
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

Screen Analysis _____ Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>.33</u>	<u>20.72</u>	<u>15.10</u>	<u>7.50</u>	<u>3.32</u>	<u>2.19</u>	<u>.75</u>	<u>173.1</u>
% on Mesh	<u>0.0</u>	<u>.7</u>	<u>41.4</u>	<u>30.2</u>	<u>15.2</u>	<u>6.6</u>	<u>4.4</u>	<u>1.5</u>	

Screen Analysis _____ Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____

VAB:0001202467

VISTA

Aberdeen Chemical Plant

LOADING ORDER

DATE PREPARED: 3/20/92 CAR/TRAILER NO.: T-377
 ORDER NO.: 0008695-000 PRODUCT TYPE: 5415
 SHIP DATE: 3/22/92 PRODUCT FROM: 690
 CUSTOMER: UNITED TECH CUSTOMER LOCATION: MOUNT AIRY, NC
 SPECIAL INSTRUCTIONS: INSPECT TRAILER

AUTHORIZED SIGNATURE: Douglas E. Shuck

YARD LOADING

LOADED/SAMPLED BY: JM + JB

LAB APPROVAL

APPROVED BY: _____

TIME/DATE: 13100 3-21-92

TIME/DATE: _____

COMMENTS: IN 1223 - OUT 1247 - SEALED - JW - 3/22/92

YARD OPERATOR SHIPPING INSPECTION

CAR/TRAILER INSPECTED BY: _____ TIME/DATE: _____

PRODUCT LAST CONTAINED: _____ CAR/TRAILER APPROVED YES NO

APPROVAL FOR LOADING: C GENERAL APPEARANCE - GOOD FAIR POOR

RAILCAR INSPECTION

✓ = o.k.
x = Problem

COMPARTMENT A CA CB B

PRODUCT IN CAR

DOMELIDS

WALKWAYS

HANDWHEELS

CAPS

LOCKING ARMS

CAP HOLDERS/LOCKS

PUNCTURES

TRAILER INSPECTION

TIRES

TRAILER BODY CONDITION C

DOMELIDS (INCLUDING GASKETS)

HOSES (IF USED)

UNLOADING/SAMPLE VALVES

LANDING GEAR (DOLLEY LEGS)

DUST CAPS (U/L LINE CAP)

MUD FLAPS

WINTERIZATION

NEED TO WASH

☐ YES

☐ NO

COMMENTS: _____

VAB.0001202468

STRAIGHT BILL OF LADING—SHUKI FUKM

ORIGINAL—NOT NEGOTIABLE

Carrier BUTLER & COMPANY

SCAC BCIV

RECEIVED. Subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading.

at ABERDEEN (A1)

MS

From VISTA POLYMERS

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Ship 06018200

To UNITED TECHNOLOGIES CORP

511 HAY STREET

P O BOX 807

MOUNT AIRY

NC 27030

Route

ENTERED MAR 23 1992

Doc SMC	Car/Vehicle No.
413220	T-377
RECEIVED	S.L.D. No.
THOR	

1 8	CONTAINER		NMA	DESCRIPTION OF ARTICLES	WEIGHT (LBS TO CORR.)	DATE
	CODE	QTY				
01	LL			PLASTIC, SYNTHETIC OTHER THAN LIQUID (POLYVINYL CHLORIDE) (2821141)		

CAPACITY	GROSS LBS.	NET LBS.	WHERE RATE IS DIFFERENT ON VALUE THE AGREED OR DECLARED VALUE OF THE PROPERTY IS HEREBY SPECIFICALLY STATED BY THE SHIPPER TO BE NOT EXCEEDING	Subject to Section 7 of Conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all lawful charges.
OUTAGE	TARE LBS.			
GROSS GALS.				
NET GALS.				

1 8	PRODUCT CODE	PRODUCT NAME	BILLING QUANTITY	U/M	AS IS LBS.	CUSTOMER IDEN CODE
1	10797	VISTA 5415 PVC RESIN	45,030	L.B.		

This shipment moving under contract(s):

REMARKS: DELIVER @ 8 A.M.

VAB.0001202469

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: April 3, 1992

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415

Railcar No.: UTCX 46550

Attention: Quality Control Manager

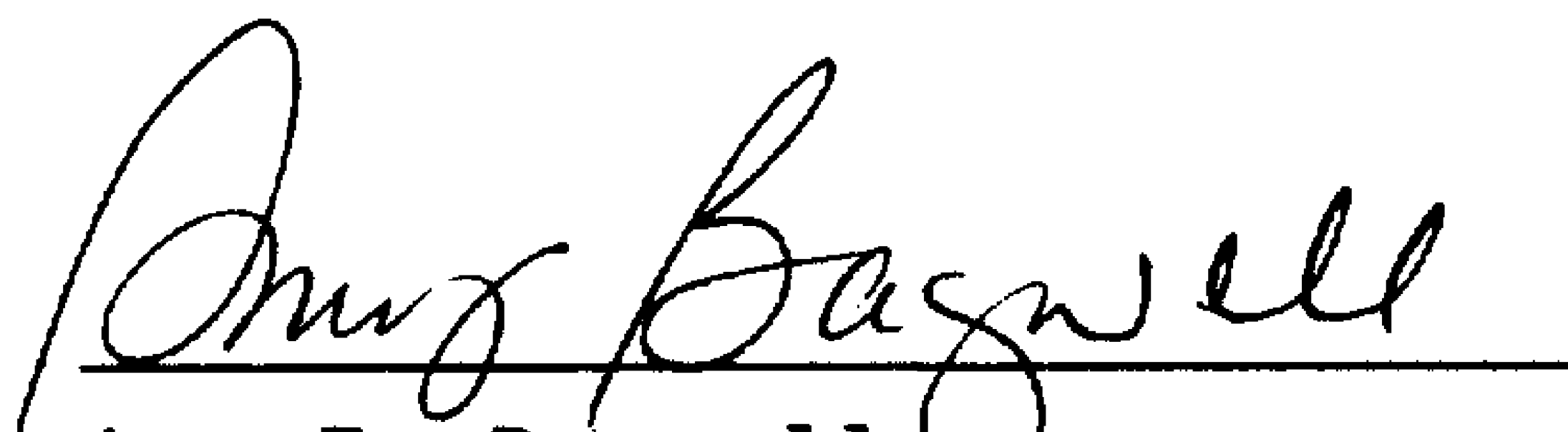
Order No.: 0009075-000

Ship Date: March 31, 1992

Customer P.O. No.: 050-02347

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.14
Bulk Density, GM/CC	ABR-2B	0.513
Brabender Dry Time, Mins.	ABR-7	4.7
Particle Size Distribution	ABR-3	
% On 40 Mesh		0.00
% On 200 Mesh		5.0
% On Pan		0.6
Residual VCM, PPM	ABGC-26	0.288
Inherent Viscosity	ABR-10	1.02
Hard Particle @ 7 Mins.	ABR-12	18
Contamination, BLK/BRN	ABR-5A	7 / 8
METS IR, % of Control	ABR-13	0


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001202470

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 3-12-92Product: 5415Car No.: 46550Time Logged In: 0600Logged In By: ESSilo(s): 690+691Ship Date: 3/31/92Order No: 9075-000Customer: UTC, Mt AiryNo metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.14		.12		.13		.12	
Contamination	BL	<u>7</u>	<u>5</u>	<u>7</u>	<u>3</u>	<u>4</u>	<u>6</u>	<u>4</u>
	BR	<u>8</u>	<u>10</u>	<u>9</u>	<u>4</u>	<u>11</u>	<u>8</u>	<u>10</u>
Bulk Density	.547		.492		.500		.513	
Hard Particle	5	<u>20</u>						
	7	<u>18 MB</u>						
Viscosity	<u>1.015</u>							
RVCM	<u>288</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.66</u>	<u>18.92</u>	<u>14.84</u>	<u>8.51</u>	<u>3.88</u>	<u>2.48</u>	<u>.29</u>
% P	<u>0.0</u>	<u>1.3</u>	<u>37.8</u>	<u>29.7</u>	<u>17.8</u>	<u>7.8</u>	<u>5.0</u>	<u>.6</u>

Drytime: 4.7Static Flow: 0/12.1Avg. Microns: 171.7Color L: 101.12 a -0.05 b 1.25METS: 9620 / 121.5%Technician: M.T & RH

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: March 16, 1992

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415

Railcar No.: VIPX 45706

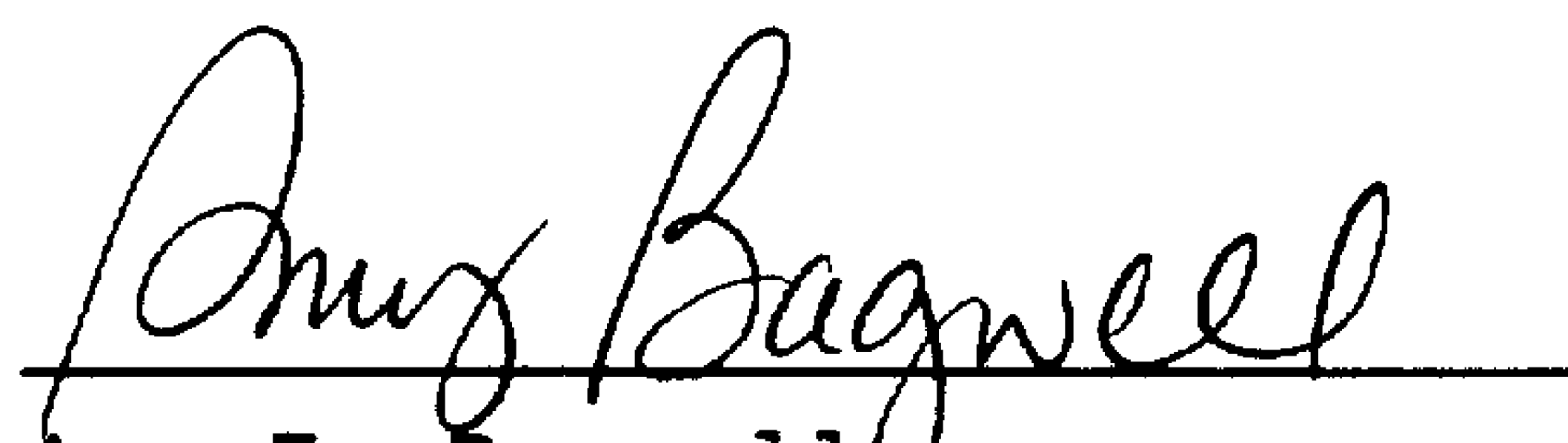
Attention: Quality Control Manager

Order No.: 0008338-000

Ship Date: March 12, 1992

Customer P.O. No.: 050-02294

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.17
Bulk Density, GM/CC	ABR-2B	0.503
Brabender Dry Time, Mins.	ABR-7	5.0
Particle Size Distribution	ABR-3	
% On 40 Mesh		0.00
% On 200 Mesh		5.5
% On Pan		1.8
Residual VCM, PPM	ABGC-26	0.017
Inherent Viscosity	ABR-10	1.01
Hard Particle @ 7 Mins.	ABR-12	1
Contamination, BLK/BRN	ABR-5A	6 / 9
METS IR, % of Control	ABR-13	122


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VISTA

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 3-9-92Product: 5415Car No.: 45706Time Logged In: 0300Logged In By: DTSilo(s): 690+691Ship Date: 3/12/92Order No: 0008338-000Customer: ESSEX UTC, NC050-02294no metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.15		.11		.13		.17	
Contamination	BL	<u>5</u>	<u>5</u>	<u>4</u>	<u>5</u>	<u>7</u>	<u>6</u>	<u>6</u>
	BR	<u>9</u>	<u>11</u>	<u>6</u>	<u>8</u>	<u>8</u>	<u>9</u>	<u>9</u>
Bulk Density	.502		.506		.501		.503	
Hard Particle	5	<u>8</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
	7	<u>1 PC</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Viscosity	1.006							
RVCM	.017							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>1.00</u>	<u>1.32</u>	<u>21.14</u>	<u>12.71</u>	<u>7.25</u>	<u>3.90</u>	<u>2.77</u>	<u>.90</u>
%	<u>0.0</u>	<u>2.6</u>	<u>42.3</u>	<u>25.4</u>	<u>14.6</u>	<u>7.8</u>	<u>5.5</u>	<u>1.8</u>

Drytime: 5.0Static Flow: 0 / 8.7Avg. Microns: 175.2Color L: 100.66 a -0.06 b 1.42METS: 9620, 121.5%Technician: MM + TE

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: March 2, 1992

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415
Railcar No.: ACFX 54589

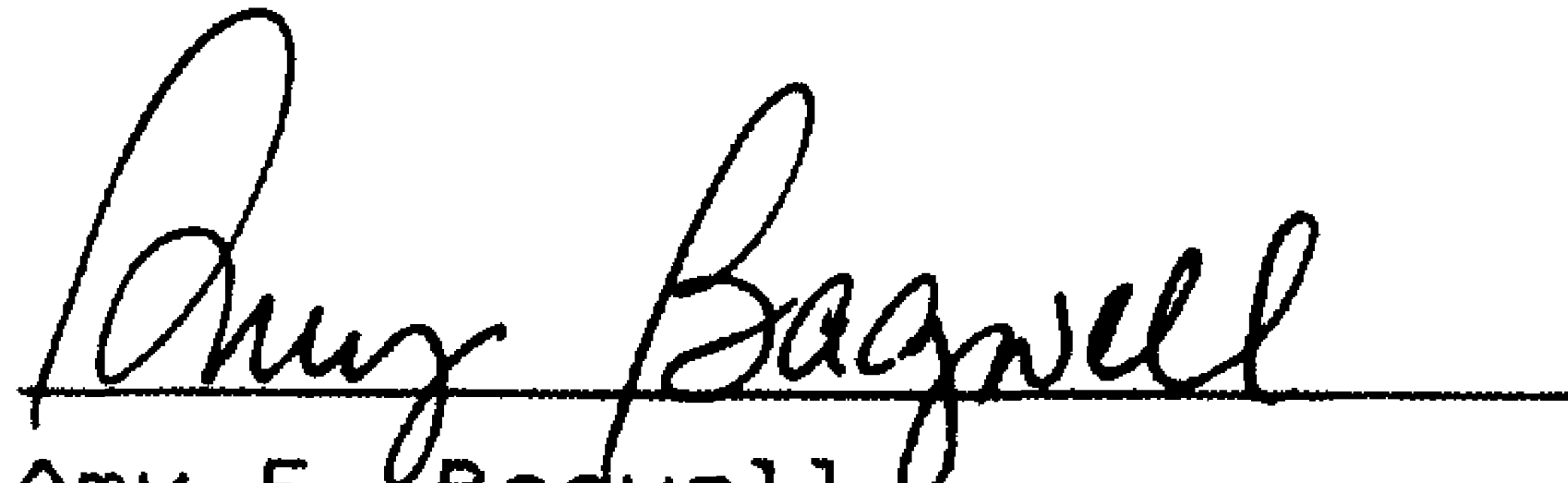
Attention: Quality Control Manager

Order No.: 0007457-001

Ship Date: February 25, 1992

Customer P.O. No.: 050-02214

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.18
Bulk Density, GM/CC	ABR-2B	0.516
Brabender Dry Time, Mins.	ABR-7	5.0
Particle Size Distribution	ABR-3	
% On 40 Mesh		0.00
% On 200 Mesh		4.9
% On Pan		1.5
Residual VCM, PPM	ABGC-26	0.010
Inherent Viscosity	ABR-10	1.01
Hard Particle @ 7 Mins.	ABR-12	1
Contamination, BLK/BRN	ABR-5A	3 / 4
METS IR, % of Control	ABR-13	119


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VISTA

VAB.0001202474

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 2-24-92Product: 5415Car No.: 54589Time Logged In: 1600Logged In By: MDSilo(s): 690, 691Ship Date: 2/25Order No: 0007457-001Customer: UTC, Mt Airy050-02214NO MTL

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.17		.17		.18		.16	
Contamination ^{BL} BR	<u>2</u> <u>6</u>	<u>3</u> <u>9</u>	<u>1</u> <u>5</u>	<u>3</u> <u>9</u>	<u>3</u> <u>4</u>	<u>2</u> <u>11</u>	<u>1</u> <u>10</u>	<u>1</u> <u>8</u>
Bulk Density	.522		.516		.510		.515	
Hard Particle ⁷ ₅	<u>2</u> <u>1-A</u>	—	—	—	—	—	—	—
Viscosity	1.005							
RVCM	.010							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.32</u>	<u>18.50</u>	<u>15.50</u>	<u>8.69</u>	<u>3.80</u>	<u>2.45</u>	<u>0.75</u>
%	<u>0.00</u>	<u>0.6</u>	<u>37.0</u>	<u>31.0</u>	<u>17.4</u>	<u>7.6</u>	<u>4.9</u>	<u>1.5</u>

Drytime: 5.0Static Flow: 0, 11.2 Avg. Microns: 169Color L: 101.01 a -0.06 b 1.25METS: 9620, 119.0 %Technician: HAB / JS

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Phone (601) 369-8111

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CERTIFICATE OF ANALYSIS

Date: Feb. 17, 1992

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415

Trailer No.: T-658

Attention: Quality Control Manager

Order No.: 0007149-001

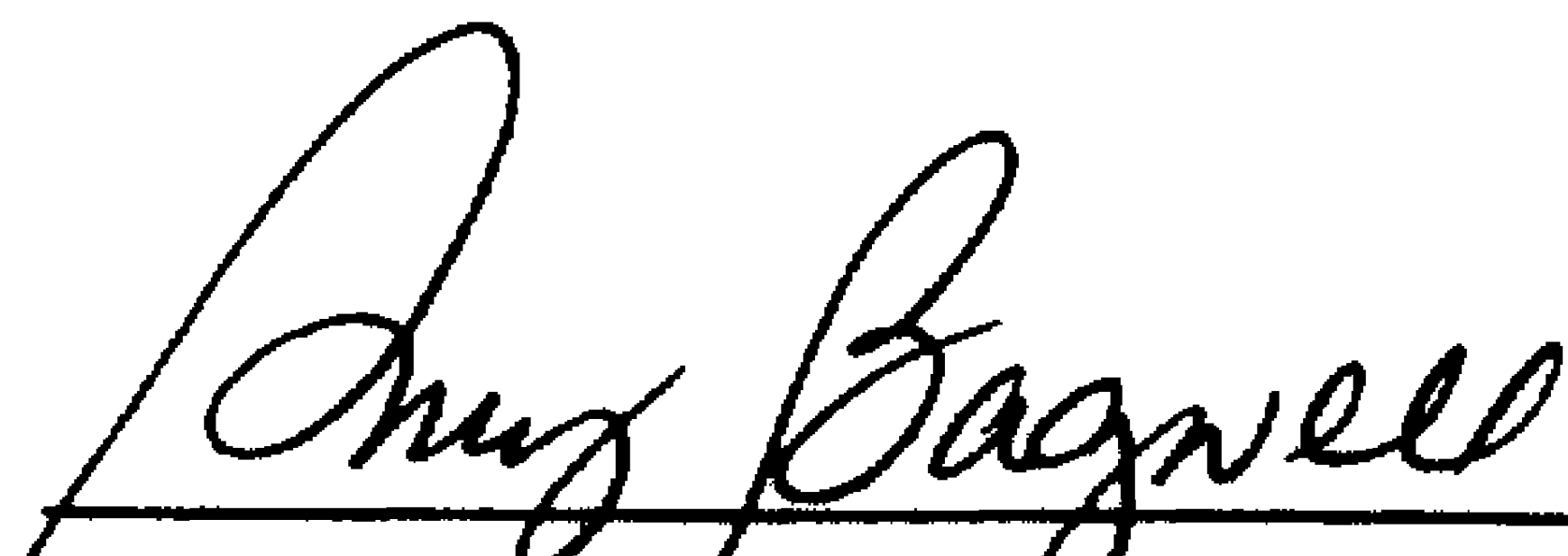
Ship Date: Feb. 17, 1992

Customer P.O. No.: 050-2176

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.09</u>
Contamination, BLK/BRN	ABR-5A	<u>3.6</u>
Hard Particles @ 7 mins.	ABR-12	<u>1</u>
Bulk Density, gm/cc	ABR-2B	<u>.502</u>
Brabender Drytime, mins.	ABR-7	<u>4.9</u>
Resin Flow Time, tap/sec.	ABR-8	<u>0.12.0</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>3.9</u>
Pan		<u>1.4</u>
Residual VCM, ppm	ABGC-26	<u>.001</u>
Inherent Viscosity	ABR-10	<u>1.03</u> **
METS IR, % of Control	ABR-13	<u>119</u> **

** Values for this property has been determined by our SQC Program
and is not tested on truck shipments.


Laboratory Supervisor/Lead

(601) 369-8111

VAB.0001202476

PVC BULK TRAILER ANALYSIS

Date 2-17-92 Product 5445 Trailer Number T-658
 Customer UTC Silo 690+91 Time 1115-1150
 Technician D.T. + H.D.L. Order No. 0007149-001

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.09</u>		1. <u>3</u>		1. <u>2</u>	1. <u>502</u>	1. <u>4-9</u>	L = <u>101.03</u>		
								A = <u>-0.08</u>		
MIDDLE	2. <u>JS</u>		2. <u>JS</u>		2. <u>JS</u>	2. <u>JS</u>	2. <u>JS</u>	B = <u>1.27</u>		
END	1. <u>JS</u>		1. <u>JS</u>		1. <u>JS</u>	1. <u>JS</u>	1. <u>JS</u>	L = <u>JS</u>		
								A = <u>JS</u>		
	2. <u>JS</u>		2. <u>JS</u>		2. <u>JS</u>	2. <u>JS</u>	2. <u>JS</u>	B = <u>JS</u>		

Particle Size Distribution:

Screen Analysis Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare <u>P</u>									
Net Wt.	<u>0.00</u>	<u>0.38</u>	<u>18.93</u>	<u>16.15</u>	<u>8.70</u>	<u>3.48</u>	<u>1.96</u>	<u>0.68</u>	
% on Mesh	<u>0.0</u>	<u>0.8</u>	<u>37.5</u>	<u>32.3</u>	<u>17.1</u>	<u>7.0</u>	<u>3.9</u>	<u>1.4</u>	

Screen Analysis Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____

Vista Polymers
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Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: *Feb. 13, 1992*

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415

Trailer No.: *658*

Attention: Quality Control Manager

Order No.: *0007149-000*

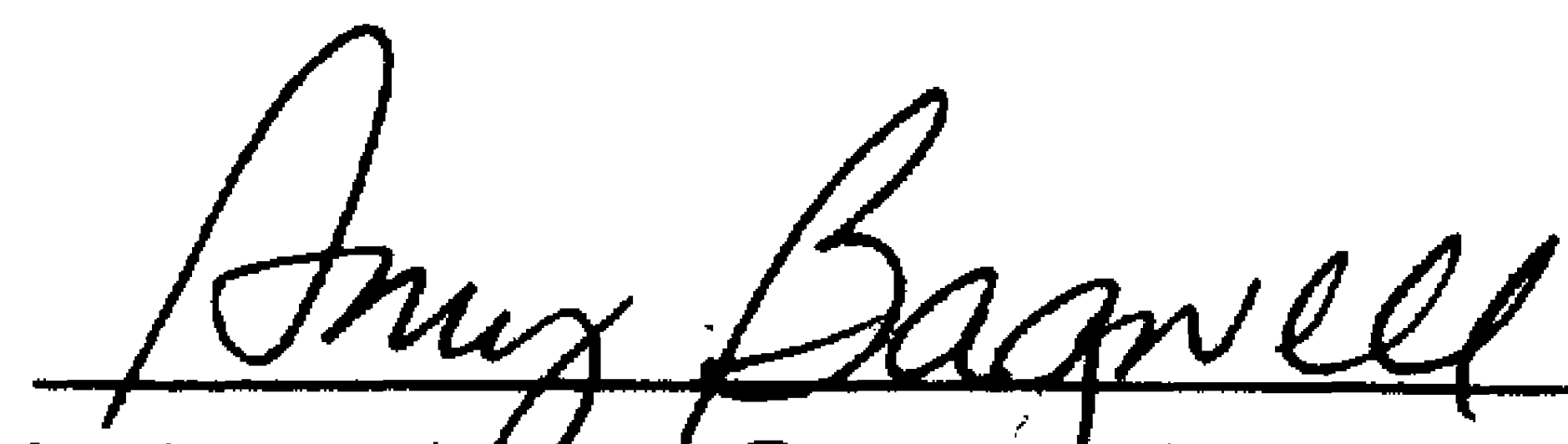
Ship Date: *Feb. 13, 1992*

Customer P.O. No.: *050-2176*

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.05</u>
Contamination, BLK/BRN	ABR-5A	<u>6.8</u>
Hard Particles @ 7 mins.	ABR-12	<u>1</u>
Bulk Density, gm/cc	ABR-2B	<u>.497</u>
Brabender Drytime, mins.	ABR-7	<u>4.5</u>
Resin Flow Time, tap/sec.	ABR-8	<u>0, 10.8</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>4.5</u>
Pan		<u>1.4</u>
Residual VCM, ppm	ABGC-26	<u>.011</u>
Inherent Viscosity	ABR-10	<u>1.03</u> **
METS IR, % of Control	ABR-13	<u>119</u> **

** Values for this property has been determined by our SQC Program
and is not tested on truck shipments.


Laboratory Supervisor/Lead

(601) 369-8111

VAB.0001202478

PVC BULK TRAILER ANALYSIS

Date 2-13-92 Product 5415 Trailer Number T-658
 Customer UTC Silo 690-691 Time 1130
 Technician M.T Order No. 0007149-000

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>05</u>		1. <u>6</u>		1. <u>20</u>	1. <u>497</u>	1. <u>4.5</u>	L = <u>100.52</u>	<u>0</u> <u>10-8</u>	
	2. <u>100</u>		2. <u>8</u>		2. <u>100</u>	2. <u>497</u>	2. <u>4.5</u>	A = <u>-0.03</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		

Particle Size Distribution:

Screen Analysis _____ Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare <u>P</u>									
Net Wt.	<u>0.0</u>	<u>1.55</u>	<u>19.10</u>	<u>14.72</u>	<u>8.62</u>	<u>3.77</u>	<u>2.26</u>	<u>.72</u>	
% on Mesh	<u>0.0</u>	<u>1.1</u>	<u>38.2</u>	<u>29.5</u>	<u>17.8</u>	<u>7.5</u>	<u>4.5</u>	<u>1.4</u>	

Screen Analysis _____ Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.	<u>0.0</u>	<u>3.7</u>	<u>81.7</u>	<u>48.1</u>	<u>24.4</u>	<u>8.6</u>	<u>4.1</u>	<u>.5</u>	<u>= 171.1</u>
Tare <u>M. Evans</u>									
Net Wt.									
% on Mesh									

Remarks _____

Vista Polymers
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Highway 25
Post Office Box 91

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CERTIFICATE OF ANALYSIS

Date: February 12, 1992

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415

Railcar No.: ACFX 41140

Attention: Quality Control Manager

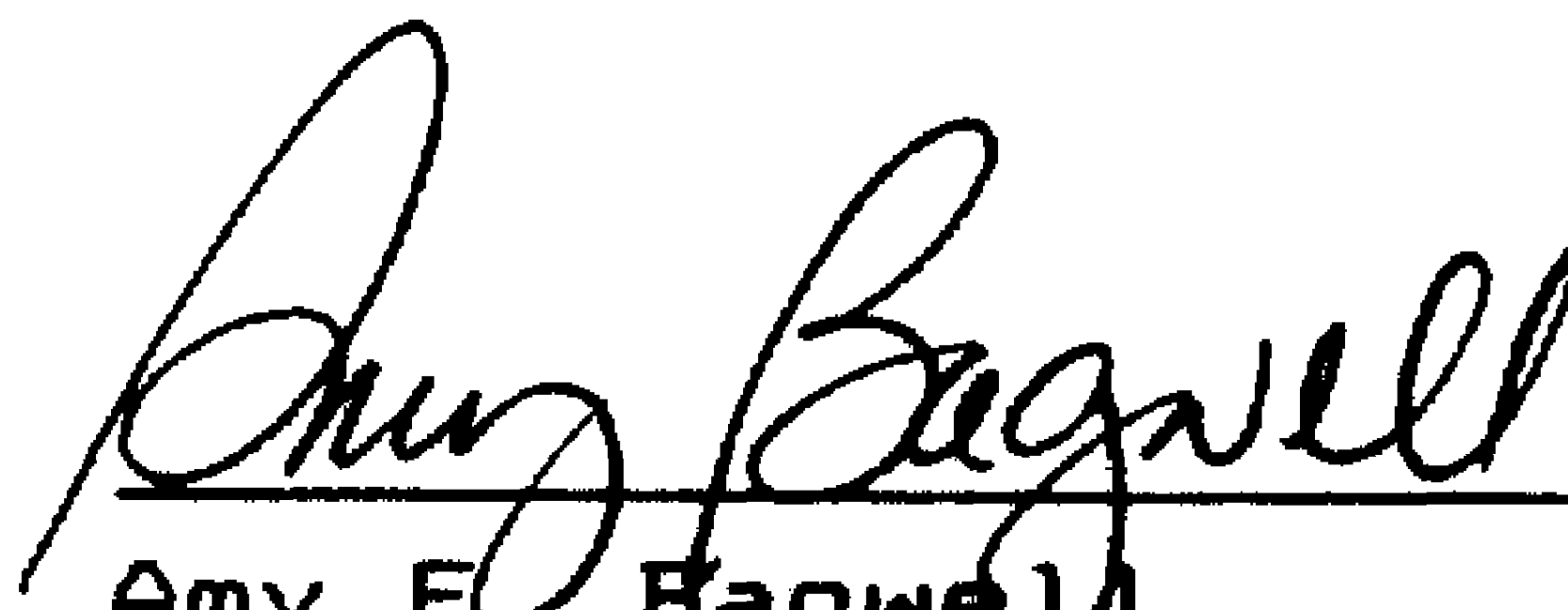
Order No.: 0006764-000

Ship Date: February 5, 1992

Customer P.O. No.: 050-02148

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.20
Bulk Density, GM/CC	ABR-2B	0.504
Brabender Dry Time, Mins.	ABR-7	4.9
Particle Size Distribution	ABR-3	
% On 40 Mesh		0.00
% On 200 Mesh		4.4
% On Pan		1.3
Residual VCM, PPM	ABGC-26	0.009
Inherent Viscosity	ABR-10	1.01
Hard Particle @ 7 Mins.	ABR-12	1
Contamination, BLK/BRN	ABR-5A	18 / 29
METS IR, % of Control	ABR-13	122


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001202480

no 7 D/Order

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 2-3-92

Product: 5415

Car No.: 41140

Time Logged In: 0500

Logged In By: M.T

Silo(s): 690-691

Ship Date: 2/5/92

Order No: 0006764-000

Customer: United 2nd, 1st Army

050-02148

AM-W4C

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.20		.18		.18		.16	
Contamination	BL	18	8	4	10	2	9	4
	BR	29	8	7	20	2	3	8
Bulk Density	.508		.489		.503		.505	
Hard Particle	7	1						
	5	1 MB						
Viscosity	1.011							
RVCM	.009							

Screen Analysis

✓ Coulter	0.0	2.2	56.5	19.6	12.1	5.7	2.7	1.2
Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	0.56	22.56	13.83	7.05	3.11	2.22	0.65
%	0.0	1.1	45.1	27.7	14.2	6.2	4.4	1.3

Drytime: 4.9

Static Flow: 0 / 13.0 Avg. Microns: 176.4

Color L: 100.27 a 0.07 b 1.16

METS: 9620, 121.9%

Technician: ES+HDL

Vista Polymers
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Highway 25
Post Office Box 91

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Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: January 20, 1992

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415

Railcar No.: PLWX 44680

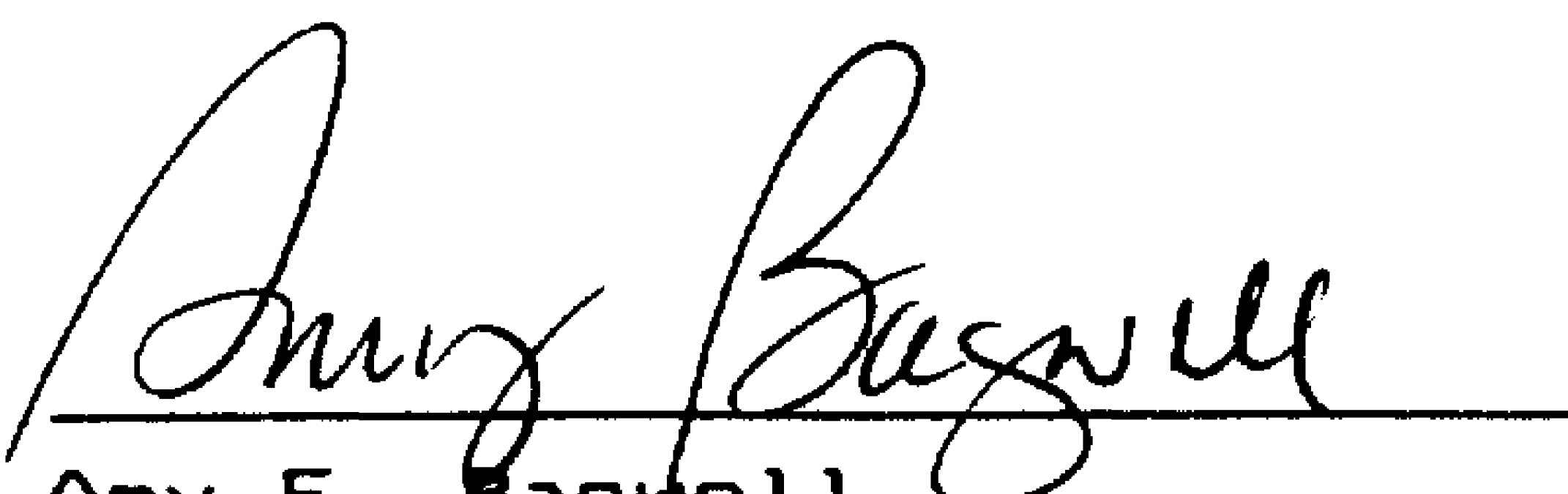
Attention: Quality Control Manager

Order No.: 0005888-000

Ship Date: January 17, 1992

Customer P.O. No.: 050-02072

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.11
Bulk Density, GM/CC	ABR-2B	0.510
Brabender Dry Time, Mins.	ABR-7	4.8
Particle Size Distribution	ABR-3	
% On 40 Mesh		0.00
% On 200 Mesh		5.1
% On Pan		1.4
Residual VCM, PPM	ABGC-26	0.010
Inherent Viscosity	ABR-10	1.02
Hard Particle @ 7 Mins.	ABR-12	2
Contamination, BLK/BRN	ABR-5A	3 / 5
METS IR, % of Control	ABR-13	119


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VISTA

PVC RAILCAR ANALYSIS

Load Date: 1-16-92Product: 5415Car No.: 44680Time Logged In: 1730Logged In By: R31Silo(s): 690, 691Ship Date: 1/17/92 Order No: 0005888-000 Customer: UTC, Mt Airy
050-02072No Metal

Compartment	A		CA		CB		B		
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top	
Moisture %	.08		.06		.11		.08		
Contamination	BL	$\frac{3}{5}$	$\frac{7}{6}$	$\frac{2}{2}$	$\frac{8}{3}$	$\frac{1}{4}$	$\frac{5}{7}$	$\frac{2}{2}$	$\frac{6}{4}$
	BR								
Bulk Density	.503		.511		.511		.515		
Hard Particle	7	18							
	5	26ail	—	—	—	—	—	—	
Viscosity	1.024								
RVCM	.010								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.21</u>	<u>18.30</u>	<u>15.56</u>	<u>8.70</u>	<u>3.94</u>	<u>2.54</u>	<u>0.72</u>
%	<u>0.0</u>	<u>0.4</u>	<u>36.6</u>	<u>31.1</u>	<u>17.5</u>	<u>7.9</u>	<u>5.1</u>	<u>1.4</u>

Drytime: 4.8Static Flow: 0 11.1Avg. Microns: 168.5Color L: 100.60 a 0.09 b 1.31METS: 9630, 119.4%Technician: Co + E-S

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Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 1-7-92

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415

VISTA

Trailer No.: T-375

Attention: Quality Control Manager

Order No.: 0009631-000

Ship Date: 1-7-92

Customer P.O. No.: 050-02022

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.14</u>
Contamination, BLK/BRN	ABR-5A	<u>7, 4</u>
Hard Particles @ 7 mins.	ABR-12	<u>1</u>
Bulk Density, gm/cc	ABR-2B	<u>.500</u>
Brabender Drytime, mins.	ABR-7	<u>4.8</u>
Resin Flow Time, tap/sec.	ABR-8	<u>0, 11.9</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.00</u>
200 Mesh		<u>4.3</u>
Pan		<u>1.5</u>
Residual VCM, ppm	ABGC-26	<u>.001</u>
Inherent Viscosity	ABR-10	<u>1.03</u> **
METS IR, % of Control	ABR-13	<u>119</u> **

** Values for this property has been determined by our SQC Program
and is not tested on truck shipments.

David Thompson
Laboratory Supervisor/Lead

(601) 369-8111

VAB.0001202484

PVC BULK TRAILER ANALYSIS

Date 1-7-92 Product 5415 Trailer Number T-375
 Customer U.T. Silo 690 + 691 Time 1745-1815
 Technician DET + HDL Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>14</u>		1. <u>7</u>		1. <u>3</u>	1. <u>500</u>	1. <u>4.8</u>	L = <u>100.84</u>		
	2.		2. <u>4</u>		2. <u>mb</u>	2.	2.	A = <u>0.06</u>		
								B = <u>1.51</u>		
										<u>11.9</u>
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		
										<u>No metal</u>
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

Screen Analysis _____ Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

								Pan	Glassy Part.
Mesh Size	40	60	80	100	120	140	200		
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.21</u>	<u>19.85</u>	<u>15.94</u>	<u>7.76</u>	<u>3.20</u>	<u>2.15</u>	<u>0.73</u>	
% on Mesh	<u>0.0</u>	<u>0.4</u>	<u>39.7</u>	<u>31.9</u>	<u>15.8</u>	<u>6.4</u>	<u>4.3</u>	<u>1.5</u>	<u>171.7</u>

Screen Analysis _____ Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

								Pan	Glassy Part.
Mesh Size	40	60	80	100	120	140	200		
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____

Vista Polymers
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Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 4/14/92

Customer: United Technologies
P. O. Box 807
Mt. Airy, NC 27030

Product: 5415

VISTA

Trailer No.: unknown

Attention: Quality Control Manager

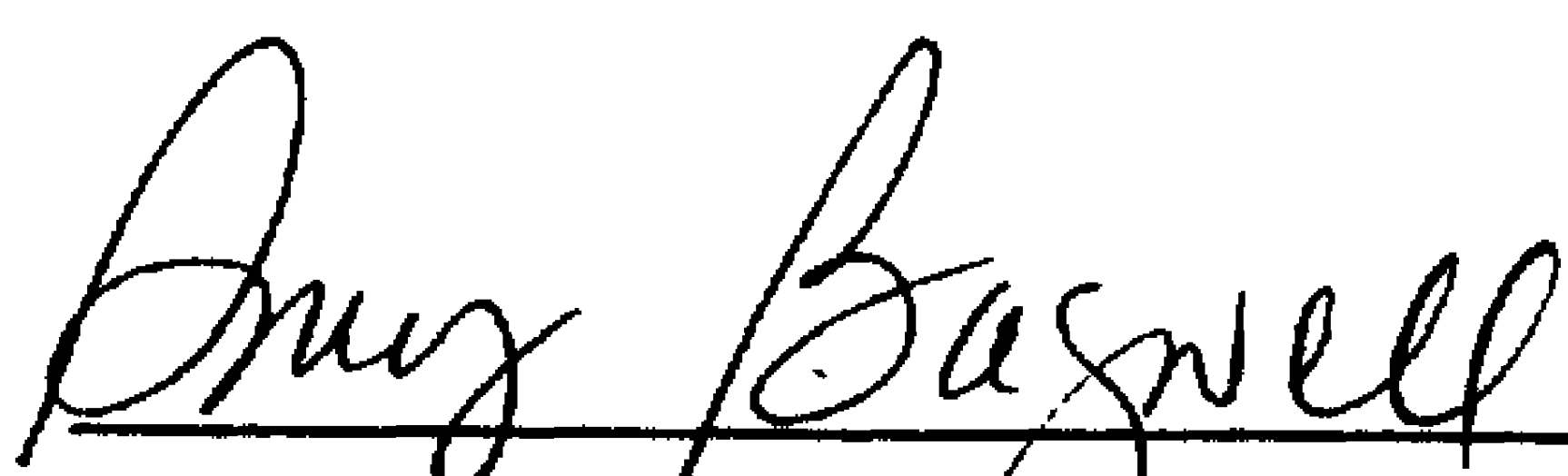
Order No.: 0006350-000

Ship Date: 1/28/92

Customer P.O. No.: unknown

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.13</u>
Contamination, BLK/BRN	ABR-5A	<u>6.5</u>
Hard Particles @ 7 mins.	ABR-12	<u>1</u>
Bulk Density, gm/cc	ABR-2B	<u>.495</u>
Brabender Drytime, mins.	ABR-7	<u>4.8</u>
Resin Flow Time, tap/sec.	ABR-8	<u>0.9.6</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>4.5</u>
Pan		<u>1.5</u>
Residual VCM, ppm	ABGC-26	<u>.001</u>
Inherent Viscosity	ABR-10	<u>1.02</u> **
METS IR, % of Control	ABR-13	<u>115</u> **

** Values for this property has been determined by our SQC Program
and is not tested on truck shipments.


Laboratory Supervisor/Lead

(601) 369-8111

VAB.0001202486