

EA02-025

TEXAS INSTRUMENTS, INC.'S

09/10/03

LETTER TO ODI

REQUEST # 5

BOX 6

PART A-M

PART I



TI-NHTSA 9161



TI-NHTSA 9162



TI-NHTSA 9163



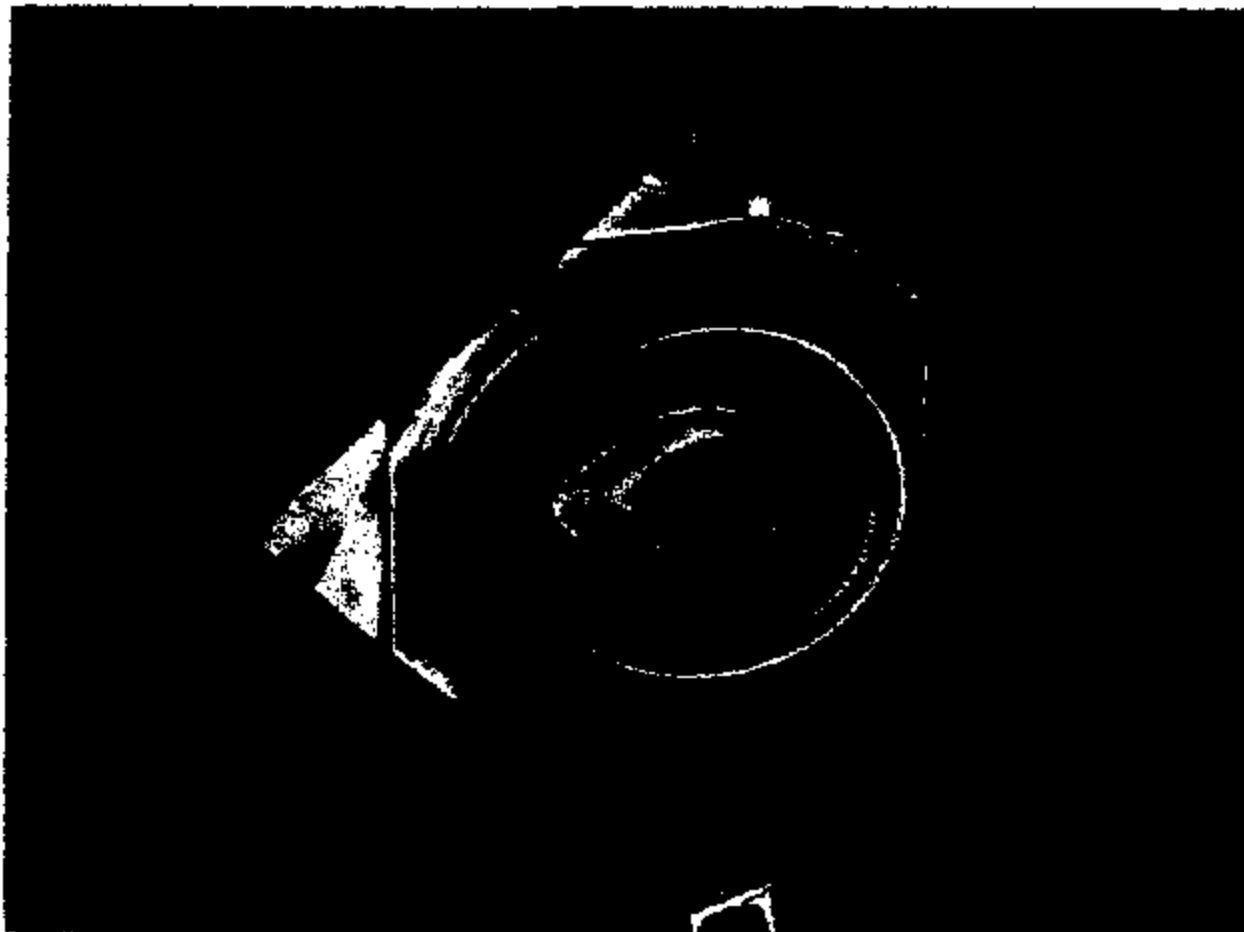
TI-NHTSA 9184



TI-NHTSA 9185



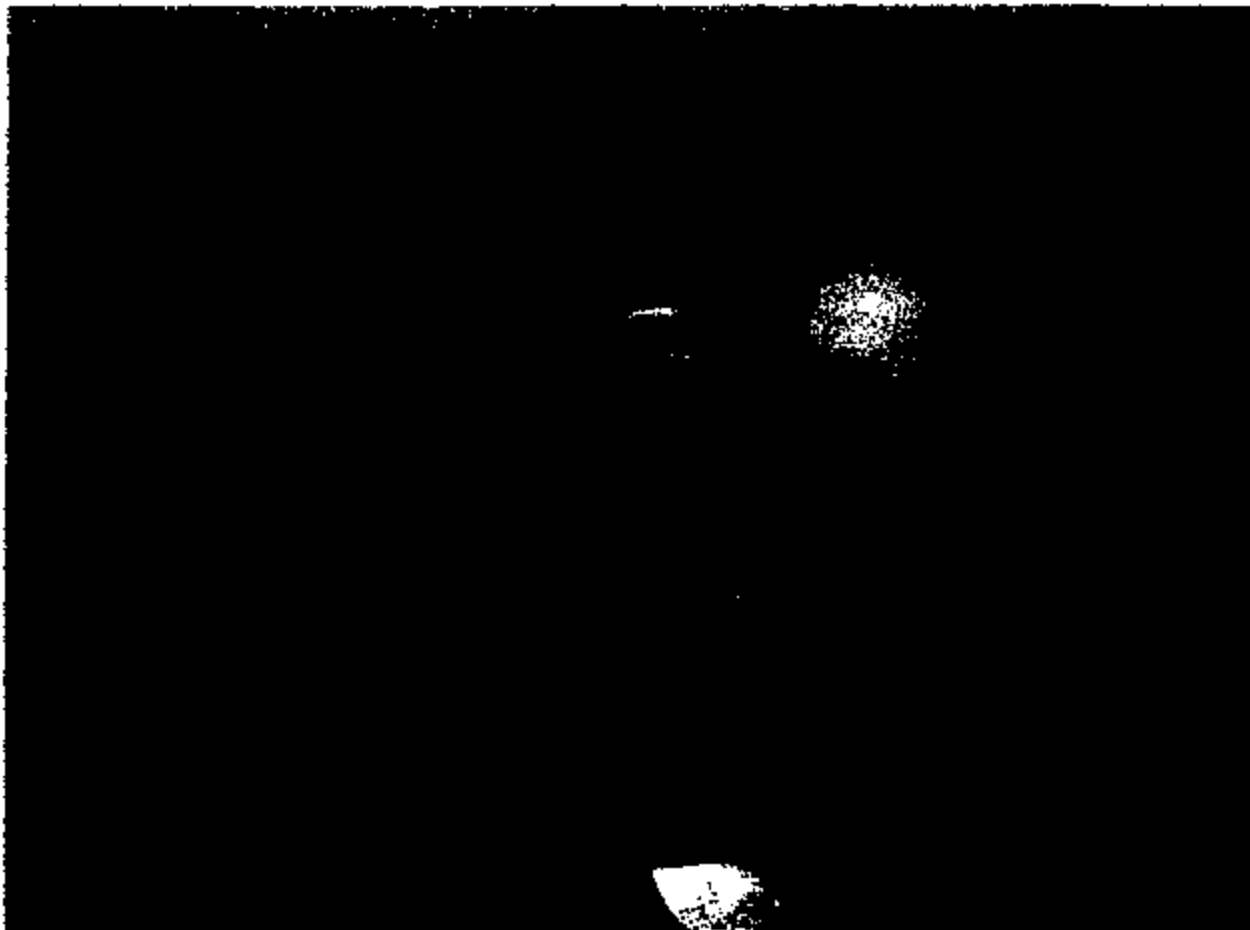
TI-NHTSA 9166



TI-NHTSA 9167



TI-NHTSA 9168



TI-NHTSA 9169



TI-NHTSA 9170



TI-NHTSA 9171

77P8L2-1 Return Analysis Sheet

Device ID: 3222 Date: 9/27/97 Ford Part # AB

Operator's Name: _____ Ser Date Code: 1222 Technician: ist

- 1 Visual Inspection
 General condition of Sealant: Good
 Signs of leakage into converter? No
 Missing connector seal? None
 compression? Yes
 Wire Harness returned? No
 Wire insulation compression? No

Bad
 Yes
 14 Vdc supply Current limited to 10 amps.

- 2 Current draw:
 Terminal to Terminal? 3.7 Ohms
 Terminal to Harness? 0.99 mA

3 Open Crimp Ring

- 4 Visual Inspection
 Connector Leakt? No
 Components wear? None
 SP leakt? No
 Environment seal condition? Good
 If seal bad, Why? None
 Corrosion? Yes
 Pictures: Yes

Yes
 No
 Medium Heavy
 Yes
 Bad
Yes
 Fail

5 Leak Test Sensor Asm.

Pass

6 Open Cup Check

7 Disphragm Inspection

	Neutral Fluid			Middle			Neutral Converter		
	Fluid #1	Converter	Fluid #2	Fluid #3	Converter	Fluid #4	Converter	Fluid #5	
	Tallon	Kapton	Tallon	Tallon	Kapton	Tallon	Tallon	Kapton	Tallon
Yellow areas	✓		✓	✓		✓	✓		✓
Tallon areas	✓		✓	✓		✓	✓		✓
Yellow deterioration	✓		✓	✓		✓	✓		✓
Kapton areas		✓			✓			✓	
Spoke pattern	✓		✓	✓		✓	✓		✓
Wear marks/abscoriation	✓	✓	✓	✓	✓	✓	✓	✓	✓

- 8 Gasket Inspection
 Present? Yes
 Misbleeding material? No
 Gasket thickness: 0.0342 inches
0.0323 inches
0.032 inches

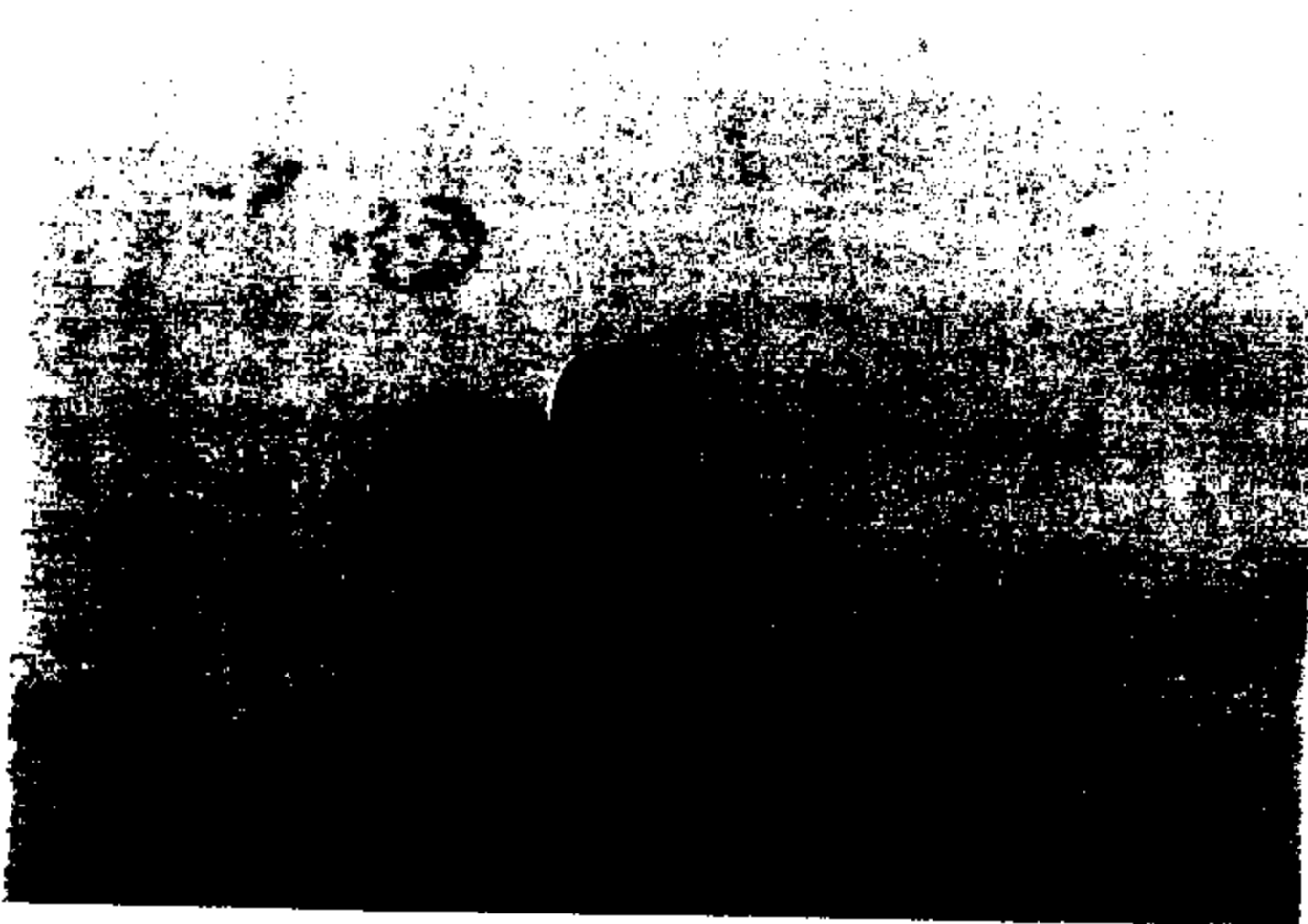
9 Package and Store

10 Analysis Summary: NTF Issue Discovered

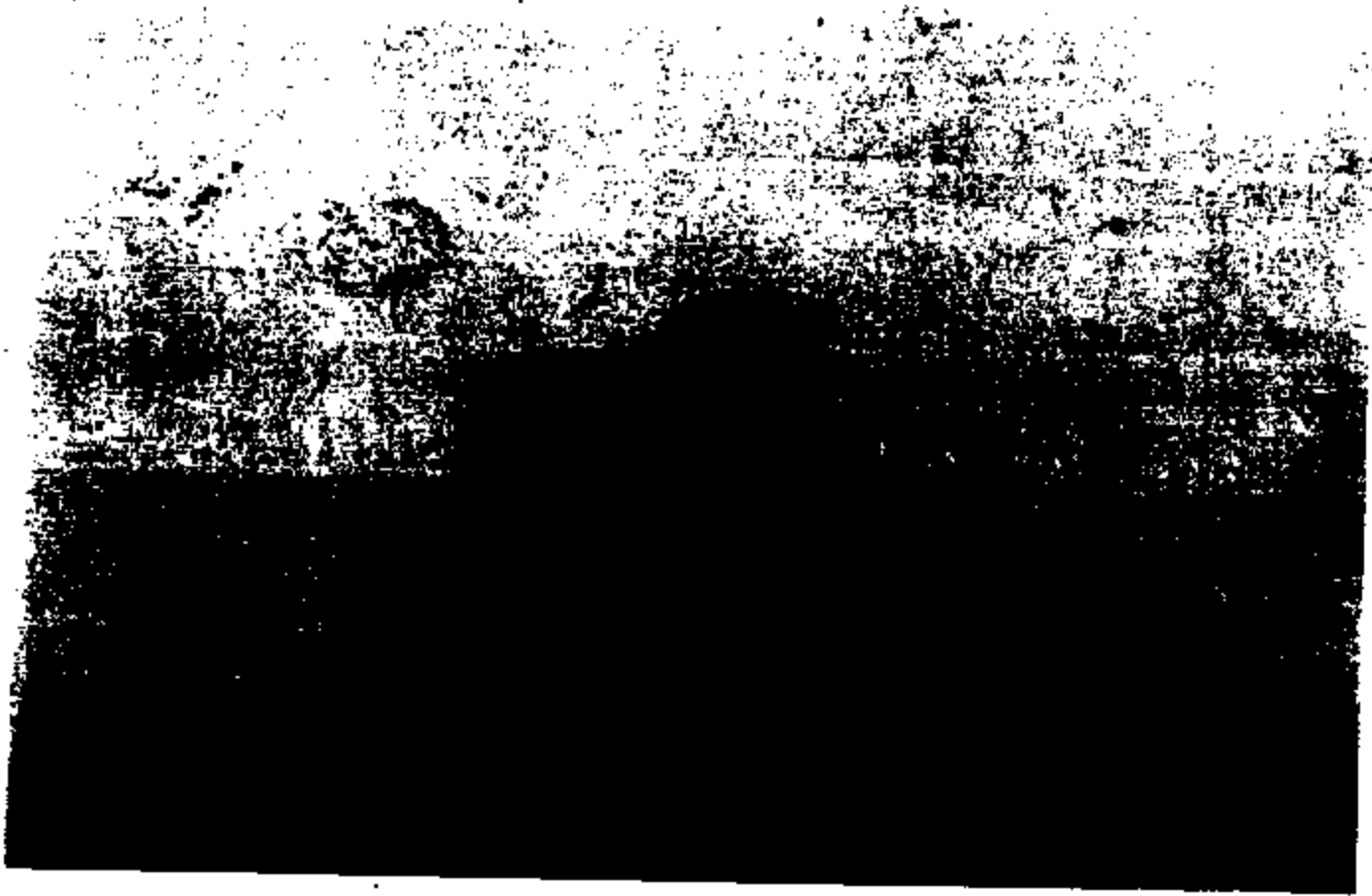
TI-NHTSA 9172



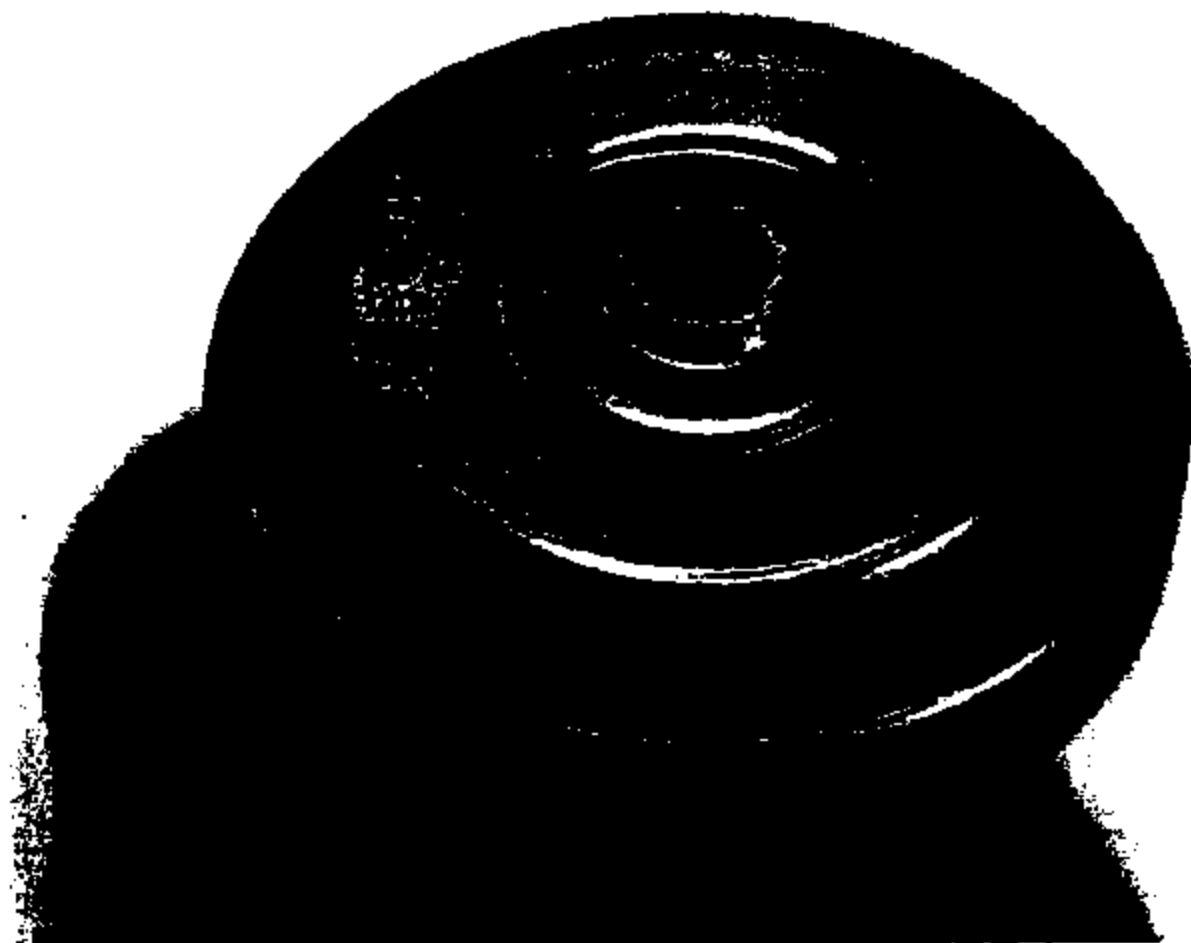
TI-NHTSA 9173



TI-NHTSA 9174



TI-NHTSA 9175



TI-NHTSA 9176



1/21/77

TI-NHTSA 9177



1/2/52

TI-NHTSA 9178



2 side 1

TI-NHTSA 9179



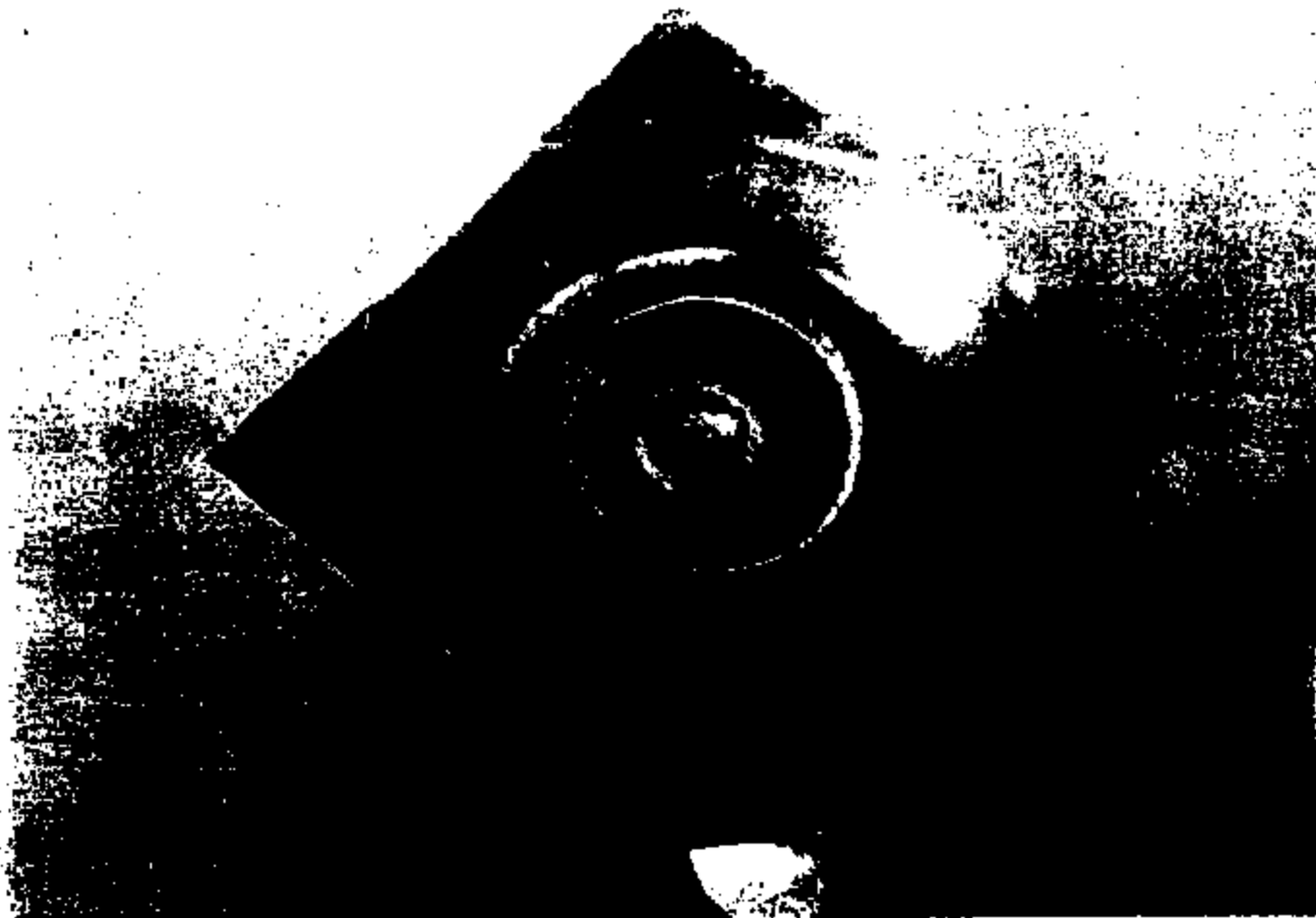
2-11-12

TI-NHTSA 9180



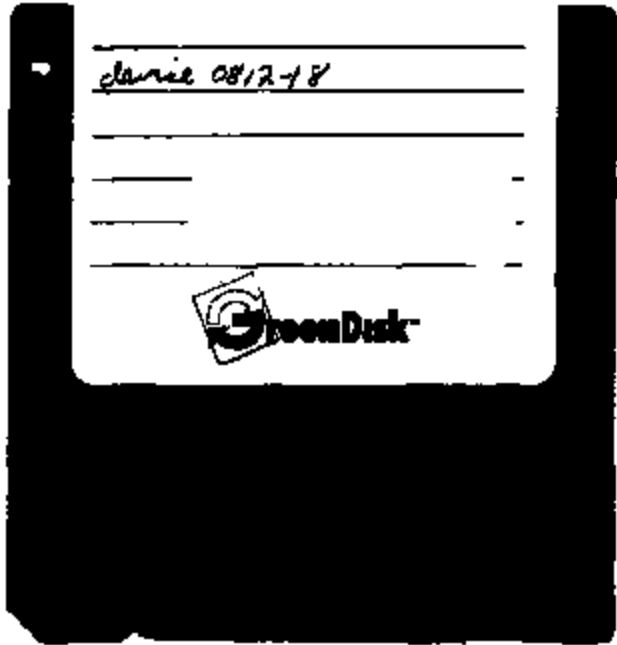
Zachel

TI-NHTSA 9181



3 photo 2

TI-NHTSA 9182

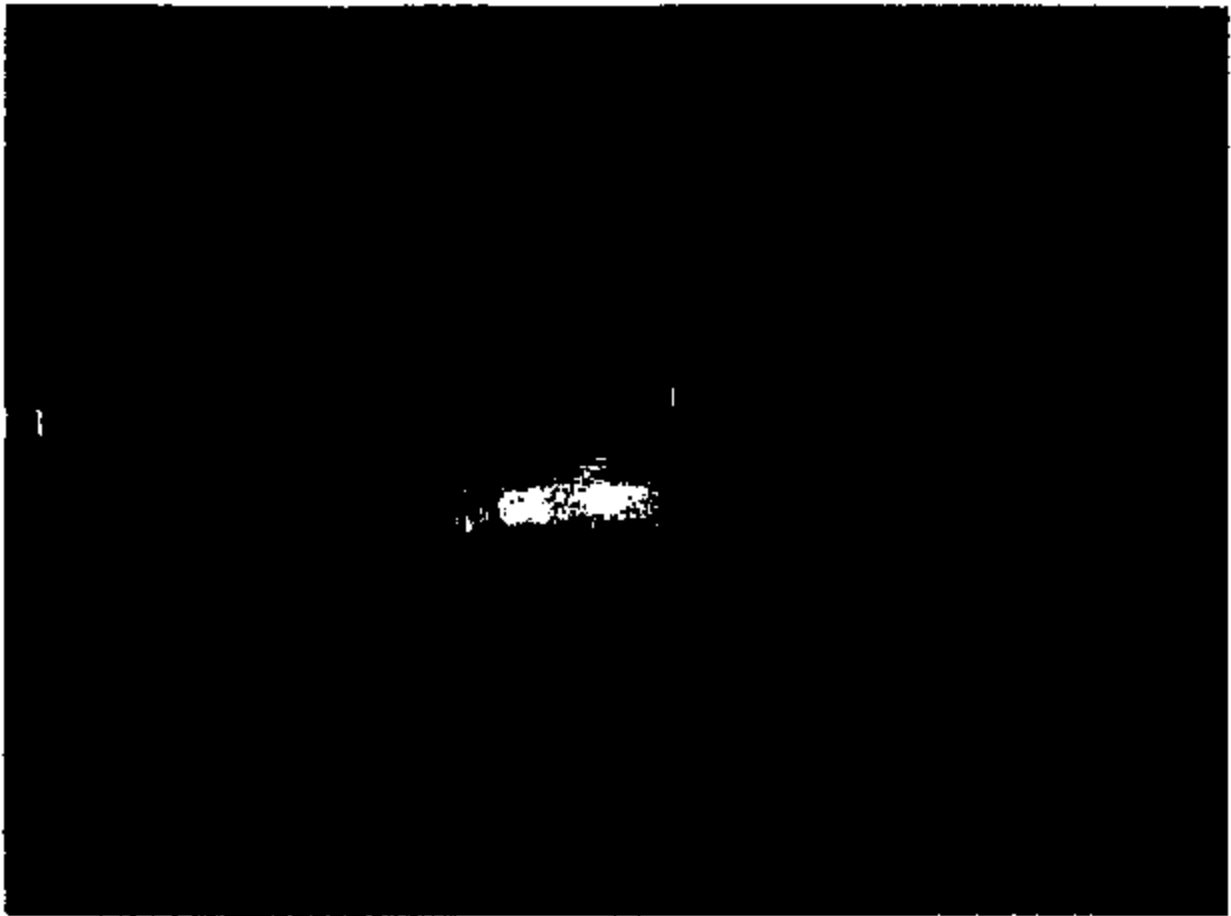


1999 8 28 1:03:42 PM MVC-FD91

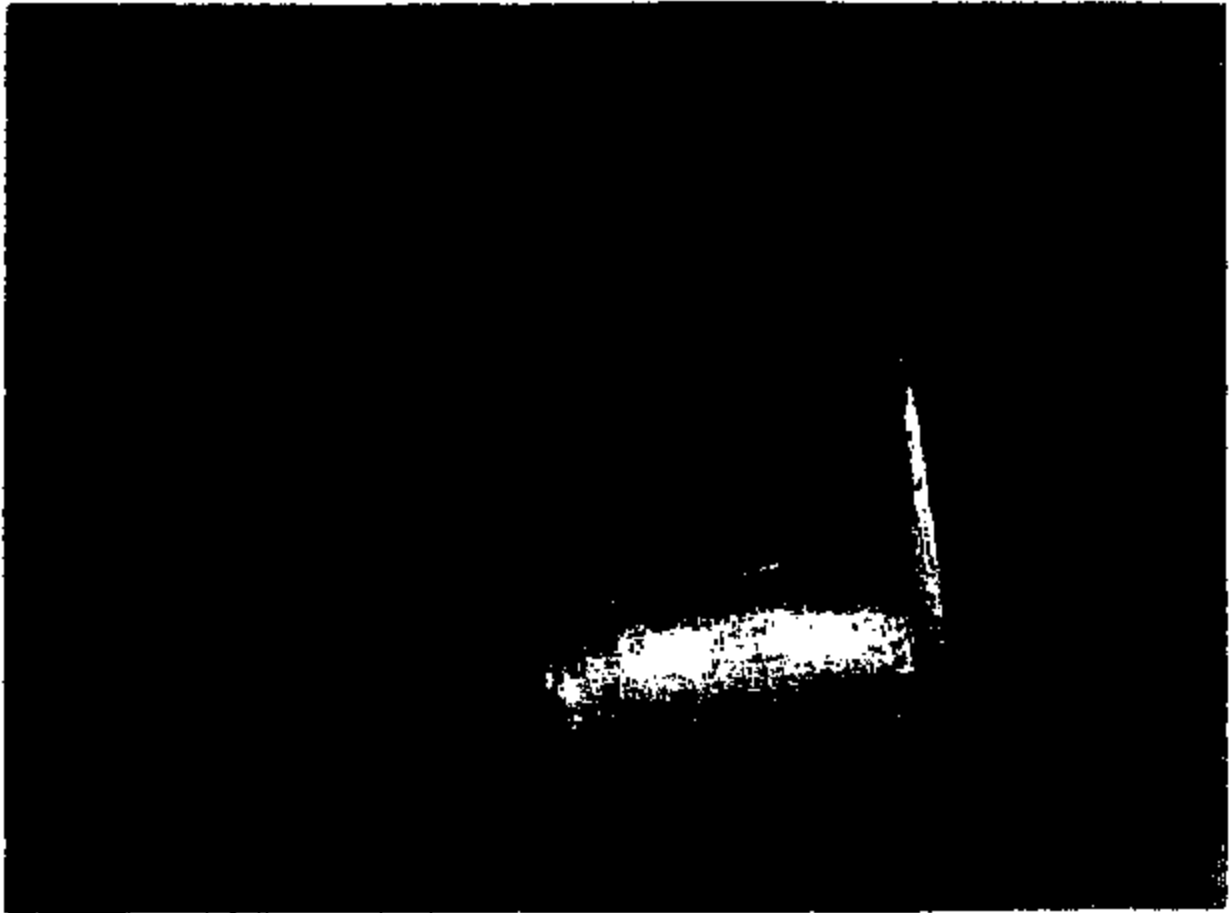
Digital Mavica images

12 mavica images		826 Kbytes free	
<u>MVC-001F.JPG</u>	1999 8 24 6:14:20 PM		
<u>MVC-002F.JPG</u>	1999 8 24 6:14:28 PM		
<u>MVC-003F.JPG</u>	1999 8 25 4:37:04 PM		
<u>MVC-004F.JPG</u>	1999 8 25 4:37:20 PM		
<u>MVC-005F.JPG</u>	1999 8 25 4:37:38 PM		
<u>MVC-006F.JPG</u>	1999 8 28 12:58:12 PM		
<u>MVC-007F.JPG</u>	1999 8 28 12:59:00 PM		
<u>MVC-008F.JPG</u>	1999 8 28 1:00:36 PM		
<u>MVC-009F.JPG</u>	1999 8 28 1:00:50 PM		
<u>MVC-010F.JPG</u>	1999 8 28 1:02:52 PM		
<u>MVC-011F.JPG</u>	1999 8 28 1:03:04 PM		
<u>MVC-012F.JPG</u>	1999 8 28 1:03:42 PM		

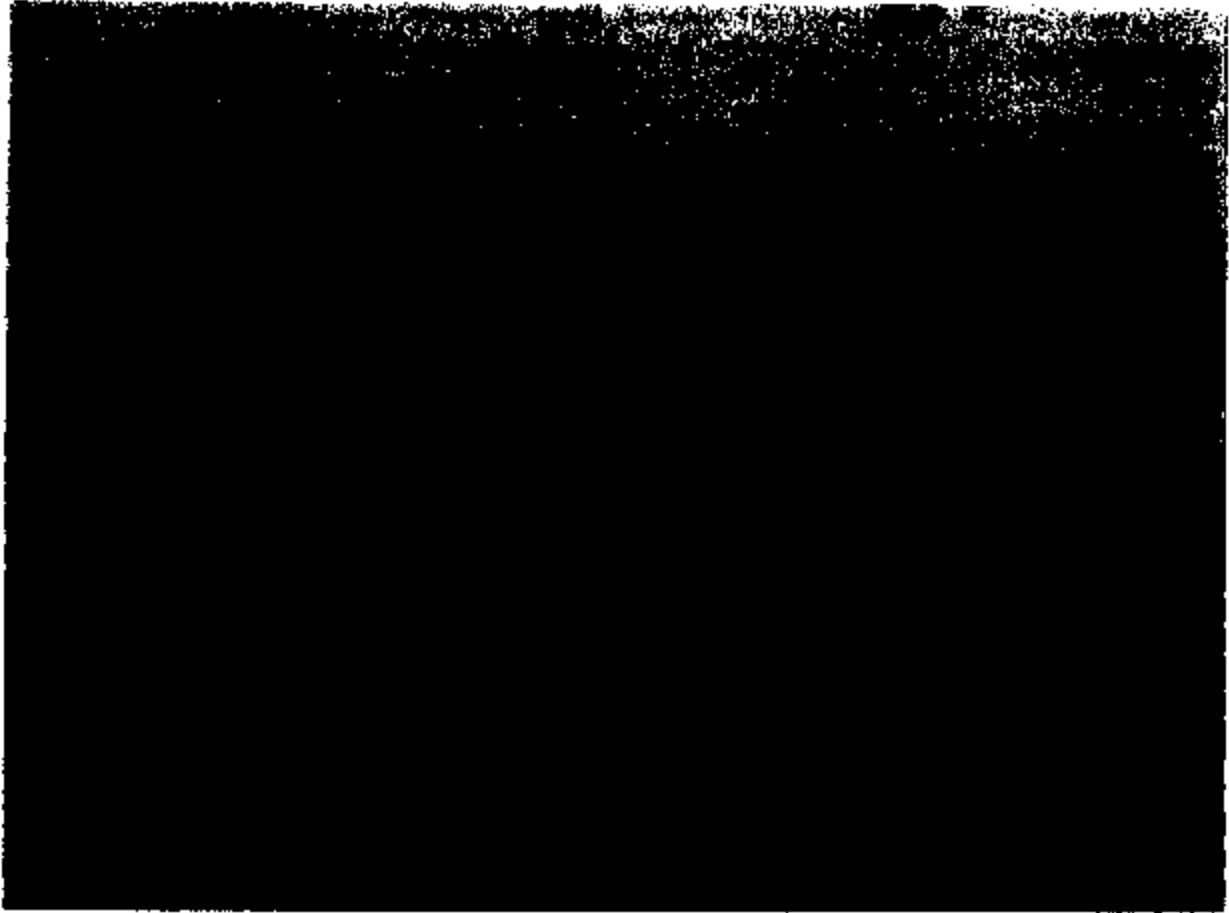
TI-NHTSA 9184



TI-NHTSA 9185



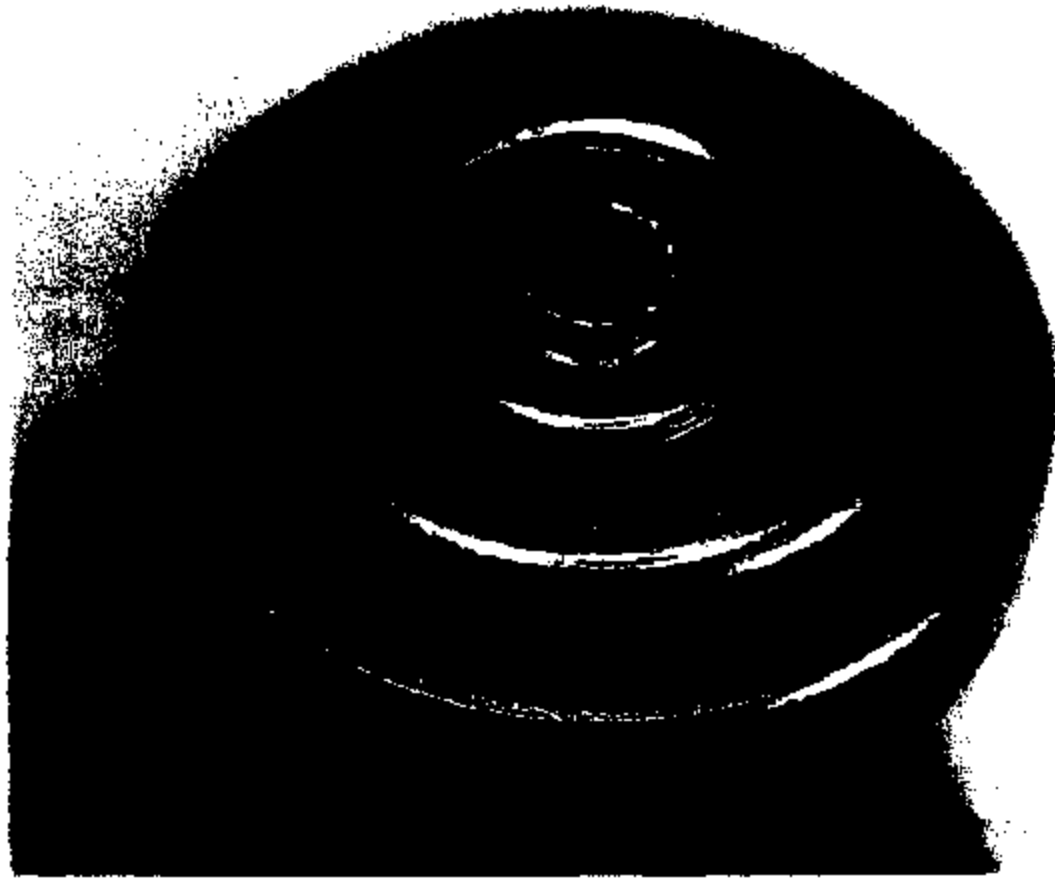
TI-NHTSA 9186



TI-NHTSA 9187



TI-NHTSA 9186



TI-NHTSA 9189



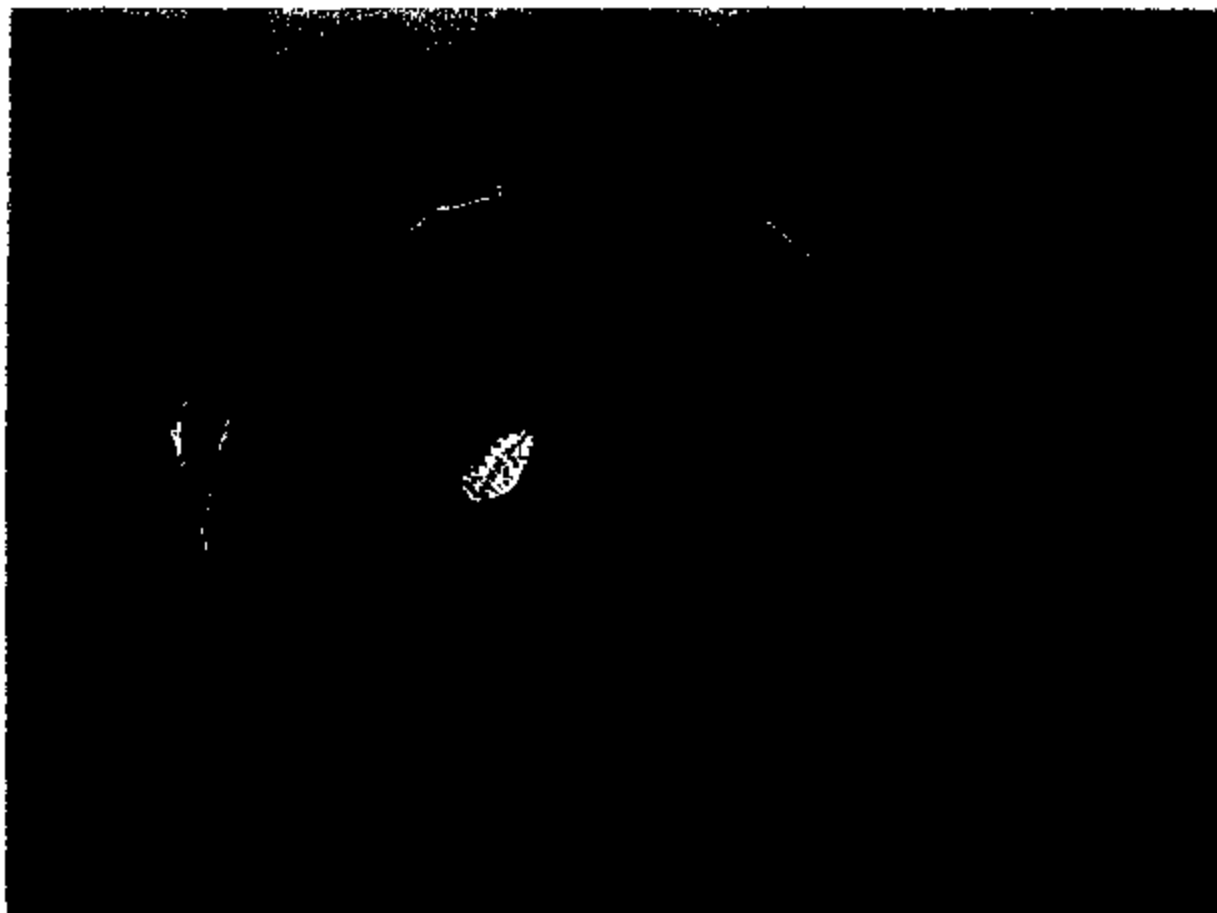
TI-NHTSA 9190



TI-NHTSA 9191



TI-NHTSA 9192



TI-NHTSA 9193



TI-NHTSA 9194





TI-NHTSA 9196

77PS12-1 Return Analysis Sheet

Device ID: 028-12 Date: 2-2-78 Ford Part # AB

Operator's Name: _____ Ser Date Code: 8335 Technician: Bst

1 Visual Inspection

General condition of Switch? Good
 Signs of leakage into connector? No
 Making connector seal? Partial Silicone
 completion?
 Wire Harness returned? Yes No
 Wire insulation compression?

Bad
Yes

2 Current draw:

Terminal to Terminal? 2.7 Ohms
 Terminal to Ground? 3.7 mA (4 Vdc supply Current limited to 10 amps.)

3 Open Crimp Plug

4 Visual Inspection

Connector Leak? No Yes
 Component wear? None Light Medium Heavy
 SF leak? No Yes
 Environment seal condition? Good Bad
 If seal bad, Why?
 Corrosion? Yes No
 Pictures

5 Leak Test Sensor Assn.

Pass Fail

6 Open Cup Crimp.

7 Diaphragm Inspection

	Nearst Fluid			Middle			Nearest Converter		
	Fluid	at	Converter	Fluid	at	Converter	Fluid	at	Converter
	Tailfin	Keel	Tailfin	Tailfin	Keel	Tailfin	Tailfin	Keel	Tailfin
Tailfin erosion	N		Y	Y		Y	Y		N
Tailfin corrosion	Y		N	N		N	N		N
Tailfin delamination			N	N		N	N		N
Keel erosion		N			Y			N	N
Keel corrosion	Y	Y	Y	Y	Y	Y	Y	Y	Y
Wear particle/deposition	N	Y	N	N	N	N	Y	N	Y

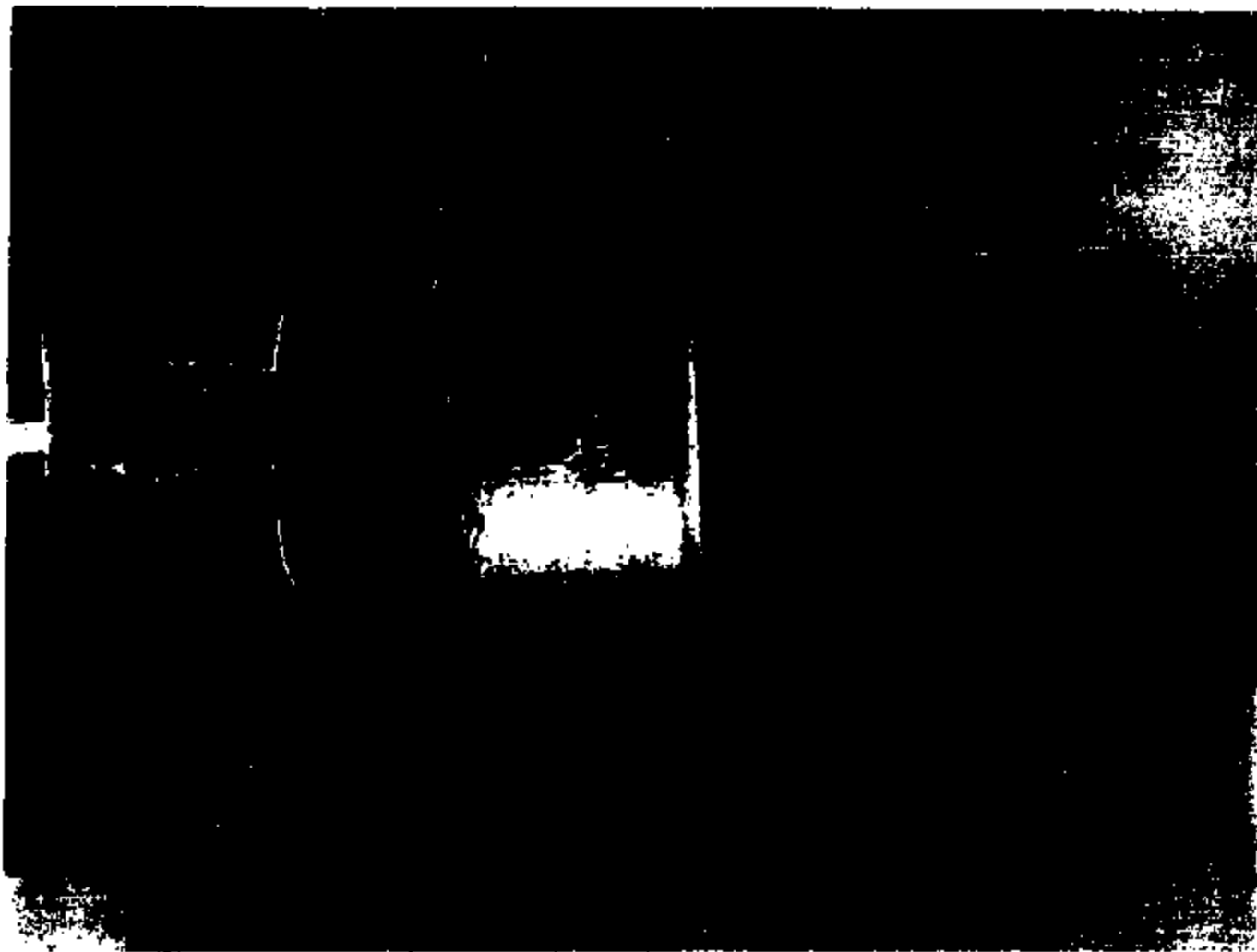
8 Gasket Inspection

Present? Yes No
 Nucleating material? Yes
 Gasket thickness: 0.03185 inches
0.03130 inches
0.03080 inches

9 Package and Store

10 Analysis Summary: NTP Issue Discovered

TI-NHTSA 9197



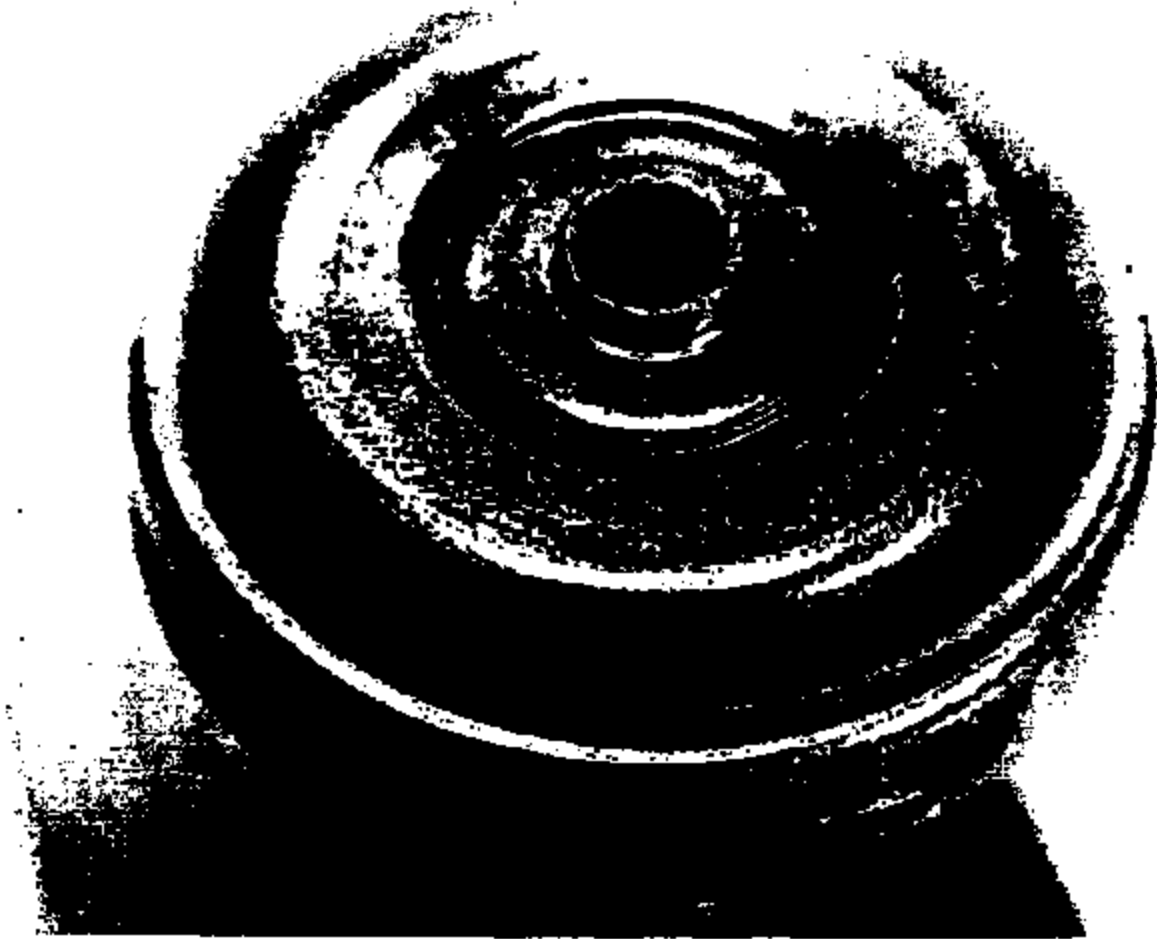
TI-NHTSA 9198



TI-NHTSA 9199



TI-NHTSA 9200



TI-NHTSA 9201



(side)

TI-NHTSA 9202



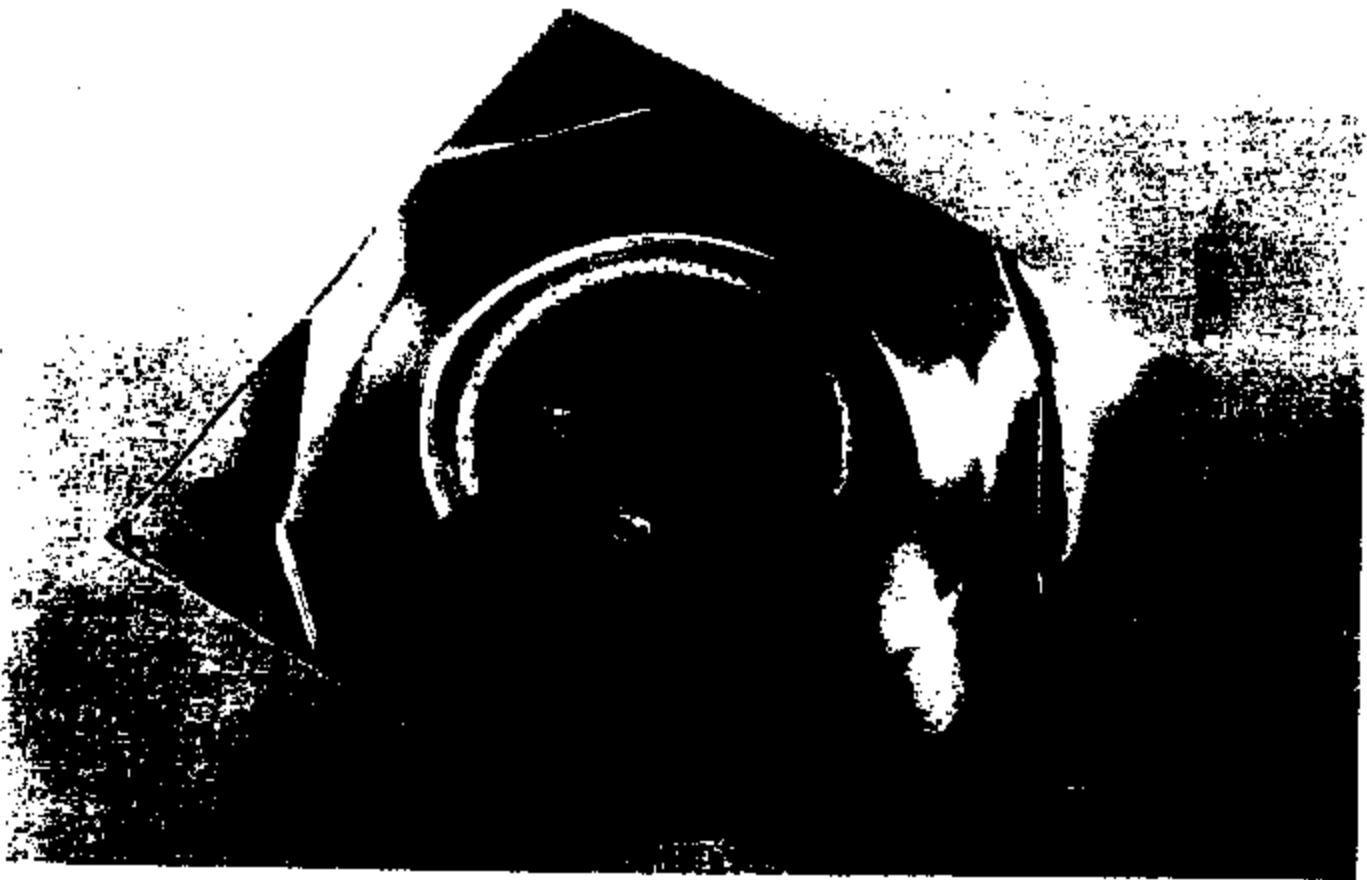
1 side 2

TI-NHTSA 9203



2 side 1

TI-NHTSA 9204



2 side 2

TI-NHTSA 9205



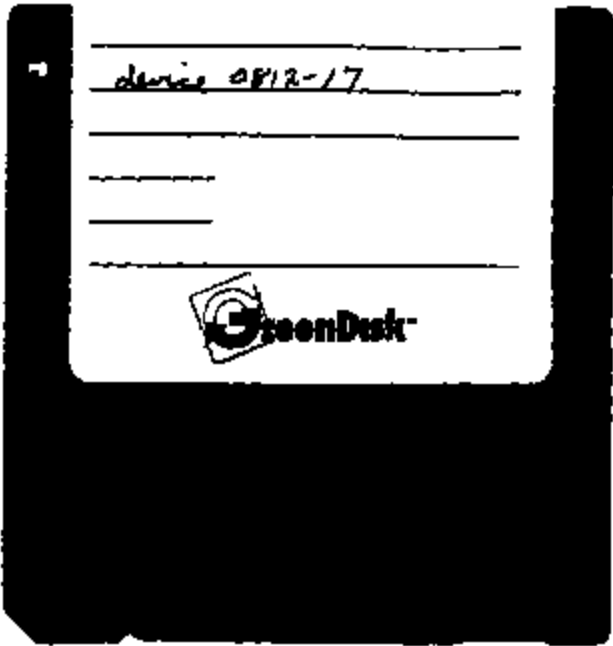
3 side 1

TI-NHTSA 9208



3 side 2

TI-NHTSA 9207



1999 8 28 12:49:00 PM MVC-FD91

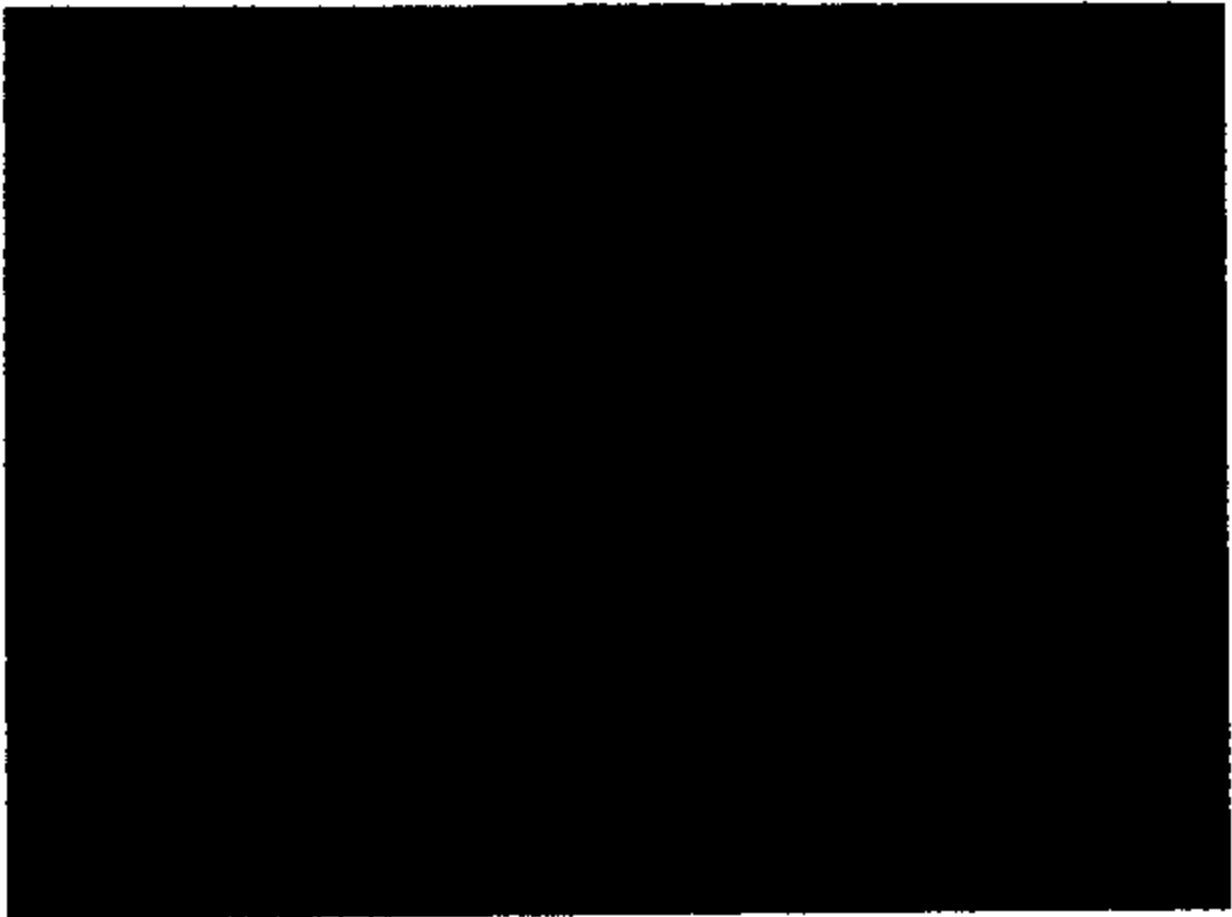
Digital Mavica images

12 mavica images		830 Kbytes free		
<u>MVC-001F.JPG</u>	1999	8	24	6:11:02 PM
<u>MVC-002F.JPG</u>	1999	8	25	4:32:30 PM
<u>MVC-003F.JPG</u>	1999	8	25	4:33:16 PM
<u>MVC-004F.JPG</u>	1999	8	25	4:33:22 PM
<u>MVC-005F.JPG</u>	1999	8	28	12:43:18 PM
<u>MVC-006F.JPG</u>	1999	8	28	12:43:36 PM
<u>MVC-007F.JPG</u>	1999	8	28	12:43:42 PM
<u>MVC-008F.JPG</u>	1999	8	28	12:45:44 PM
<u>MVC-009F.JPG</u>	1999	8	28	12:46:26 PM
<u>MVC-010F.JPG</u>	1999	8	28	12:48:16 PM
<u>MVC-011F.JPG</u>	1999	8	28	12:48:40 PM
<u>MVC-012F.JPG</u>	1999	8	28	12:49:00 PM

TI-NHTSA 0209



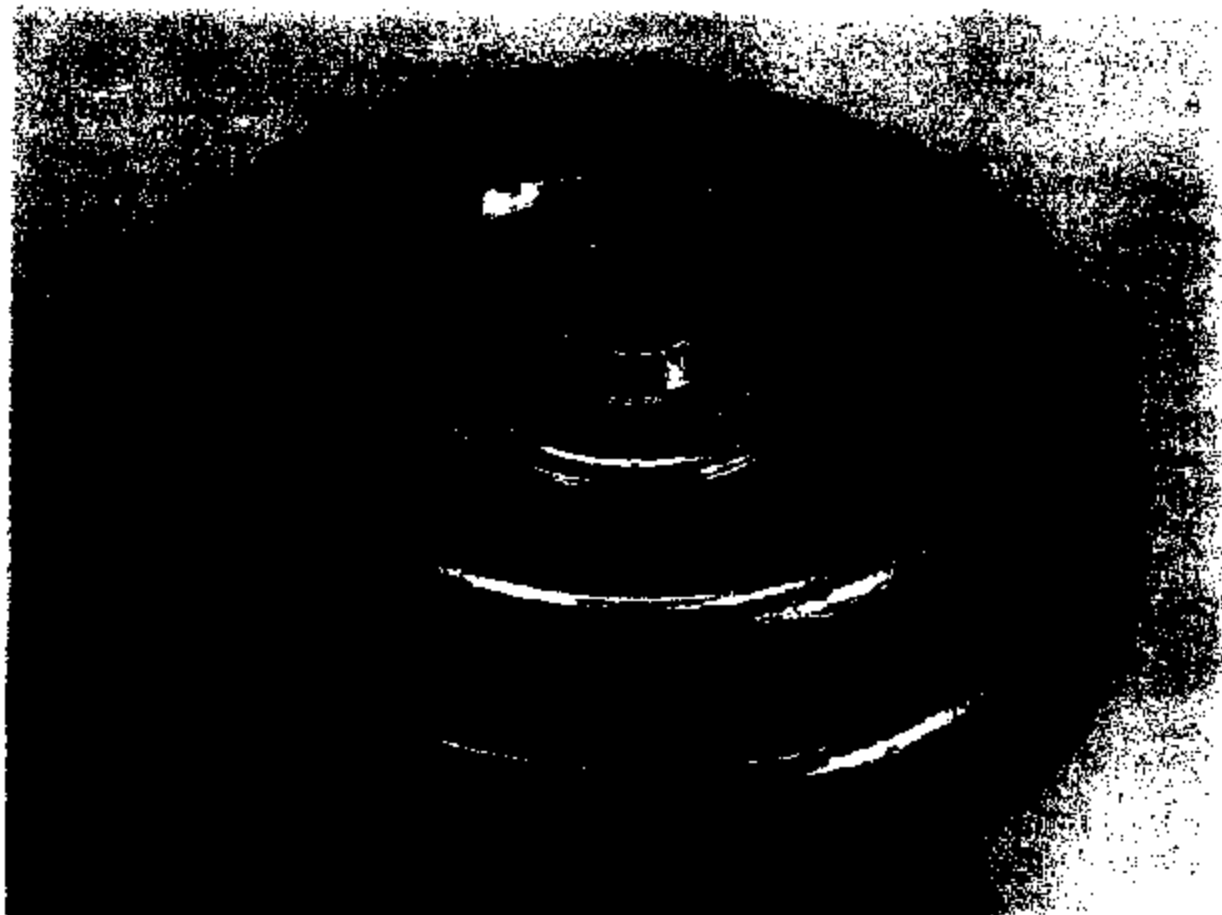
TI-NHTSA 9210



TI-NHTSA 9211



TI-NHTSA 9212



TI-NHTSA 9213



TI-NHTSA 9214



TI-NHTSA 9215



TI-NHTSA 8216



TI-NHTSA 9217



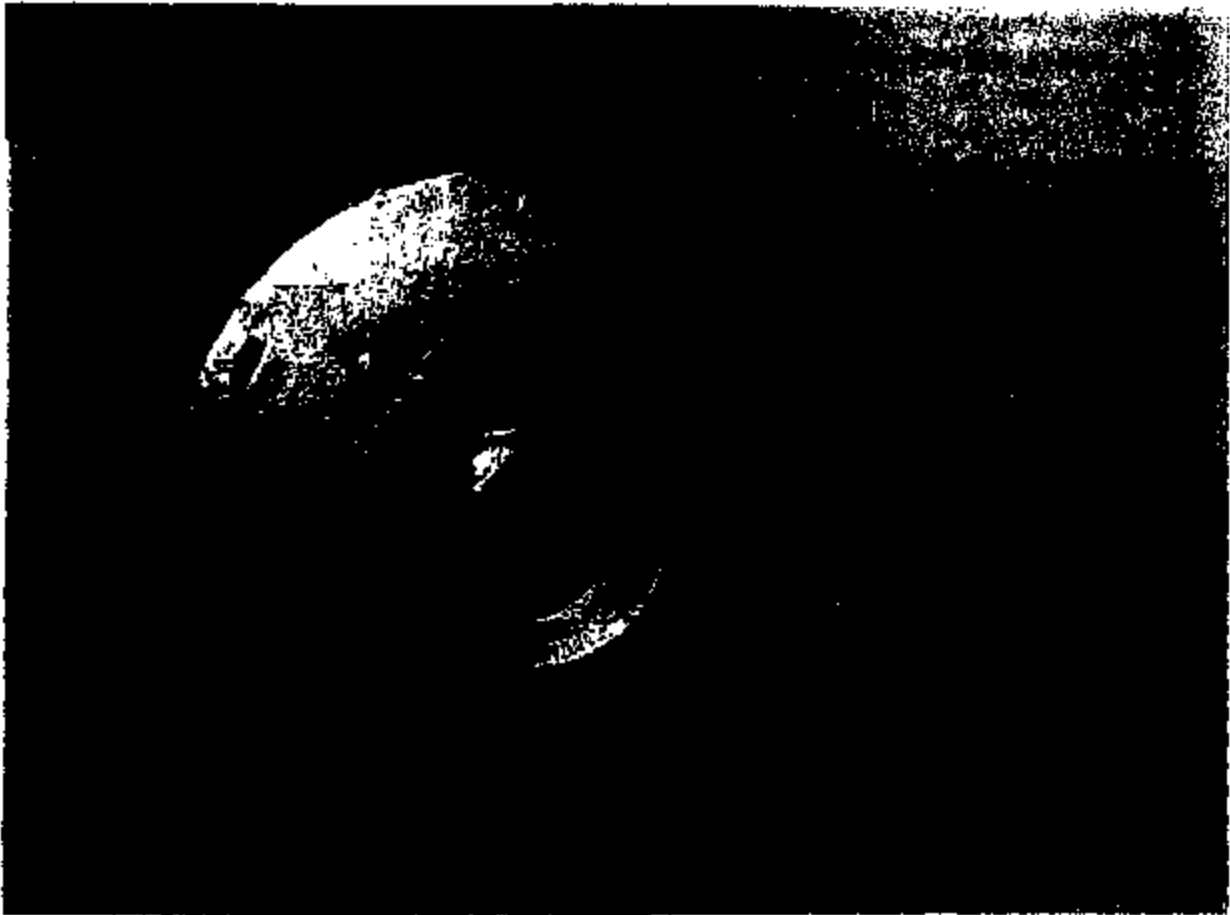
TI-NHTSA 9218



TI-NHTSA 9219



TI-NHTSA 9220



TI-NHTSA 9221

77P9L2-1 Return Analysis Sheet

Device ID: 395 Date: 1-17 Ford Part # AB

Operator's Name: _____ Sw Date Code: 2104 Technician: Bob

1 Visual Inspection

General condition of Switch: Good
 Signs of leakage into connector? None
 Missing connector seal? Yes
 Wire harness returned? Yes
 Wire insulation compromised? No

Bad
Yes

2 Current draw :

Terminal to Terminal: 0.2 Ohms
 Terminal to Heater? 0.0 nA 14 Volt supply Current limited to 10 amps.

3 Open Crimp Ring

4 Visual Inspection

Connector Leak? No Yes
 Component wear? None Light Medium Heavy
 BF leak? None Yes
 Enforcement seal condition? Good Bad
 If seal bad, Why?
 Corrosion? Yes No
 Pictures

5 Leak Test Sector Area

Pass Fail

6 Open Cap Crimp

7 Diaphragm Inspection

	Nearest Fluid #1			Middle #2			Nearest Connector #3		
	Fluid	Seal	Connector	Fluid	Seal	Connector	Fluid	Seal	Connector
Teflon patch	✓		✓	✓		✓	✓		✓
Teflon grease			✓			✓			✓
Teflon contamination	✓		✓	✓		✓	✓		✓
Kapton traces					✓				✓
Brush residue	✓		✓		✓				✓
Wear marks/abrasion	✓	✓	✓	✓	✓	✓	✓	✓	✓

8 Gasket Inspection

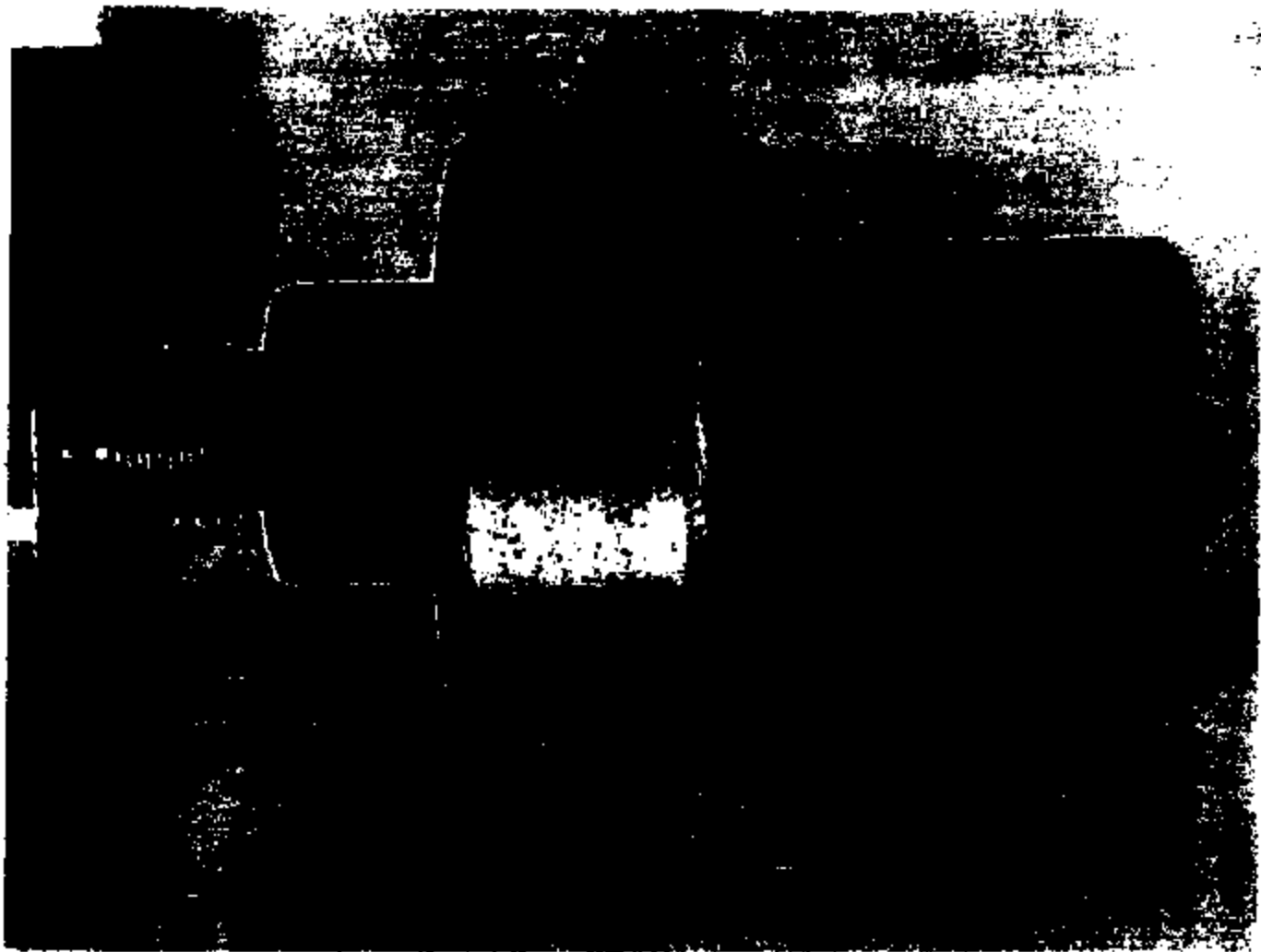
Protrude: Yes No
 Misbleeding material: Yes No
 Gasket thickness: 0.0205 inches
0.0213 inches
0.0222 inches

9 Package and Wire

10 Analysis Summary: NTF None Discovered

* Teflon lower applicator
 2 donuts - spacers in T.

TI-NHTSA 9222



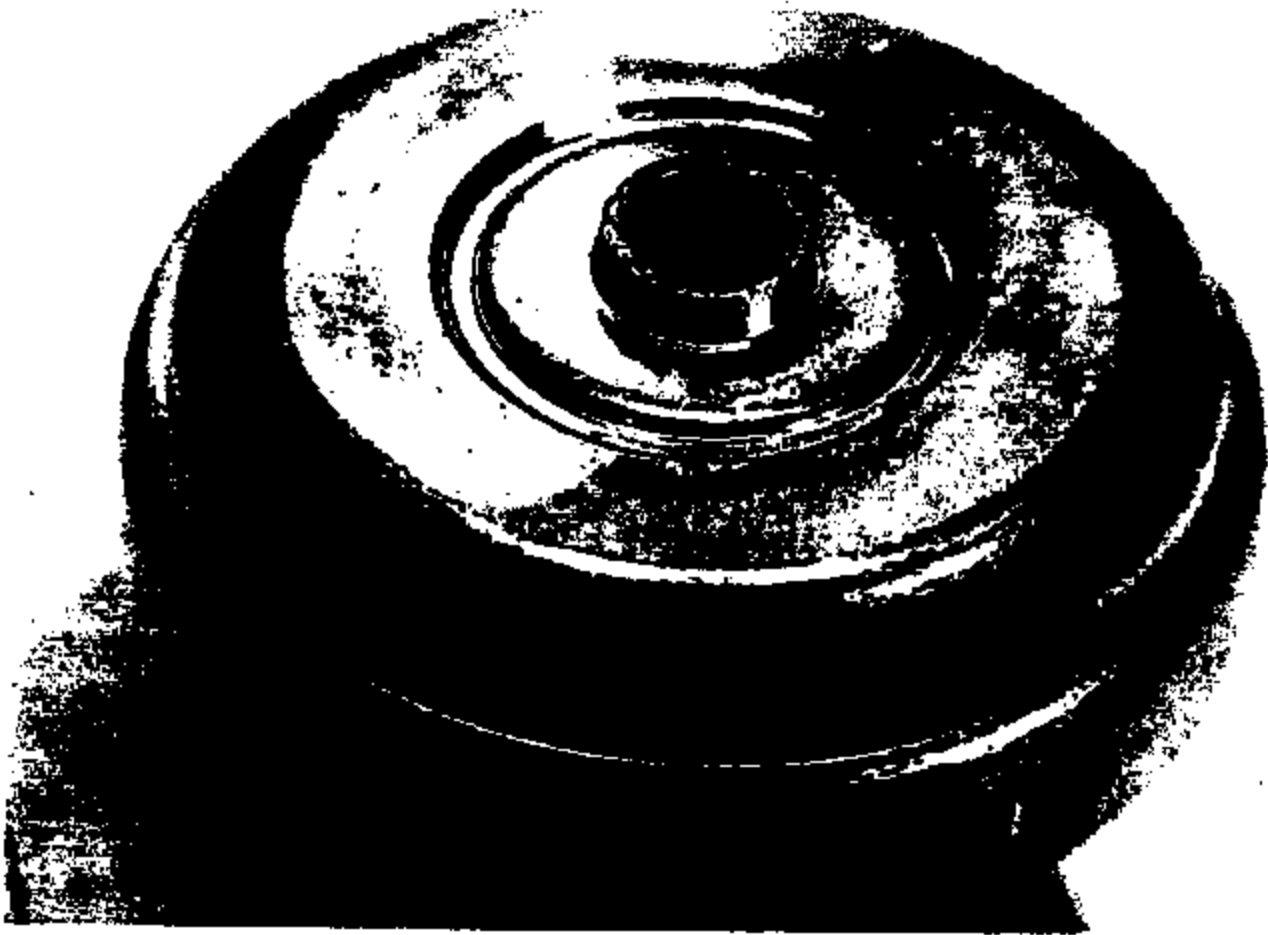
TI-NHTSA 9223



TI-NHTSA 9224



TI-NHTSA 9225



TI-NHTSA 9226



(pic)

TI-NHTSA 9227



12/12

TI-NHTSA 8228



2 side

TI-NHTSA 9229



2 side 2

TI-NHTSA 9230



3 and 1

TI-NHTSA 9231



3 21/1/82

TI-NHTSA 9232

device # 0817-16

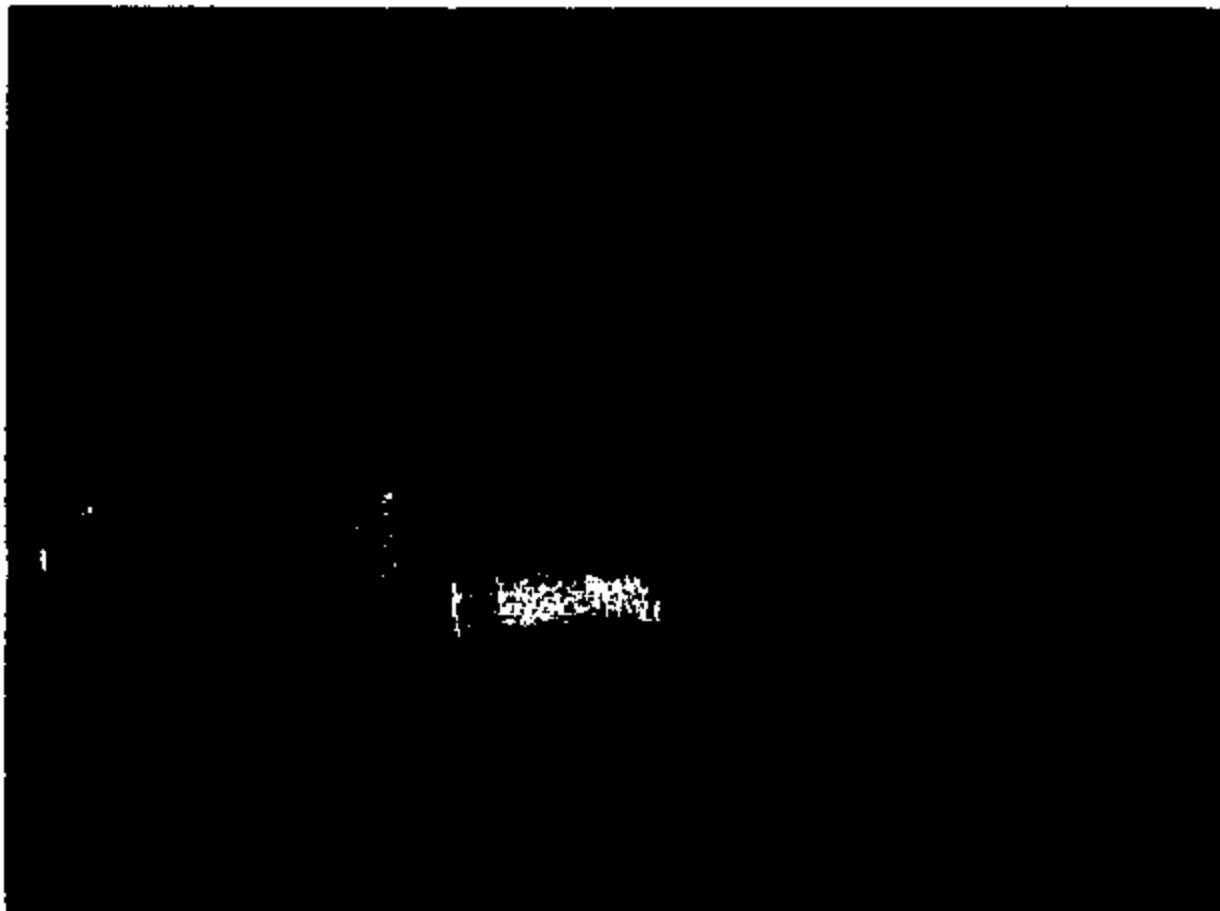


1999 8 28 12:33:41 PM MVC-FD91

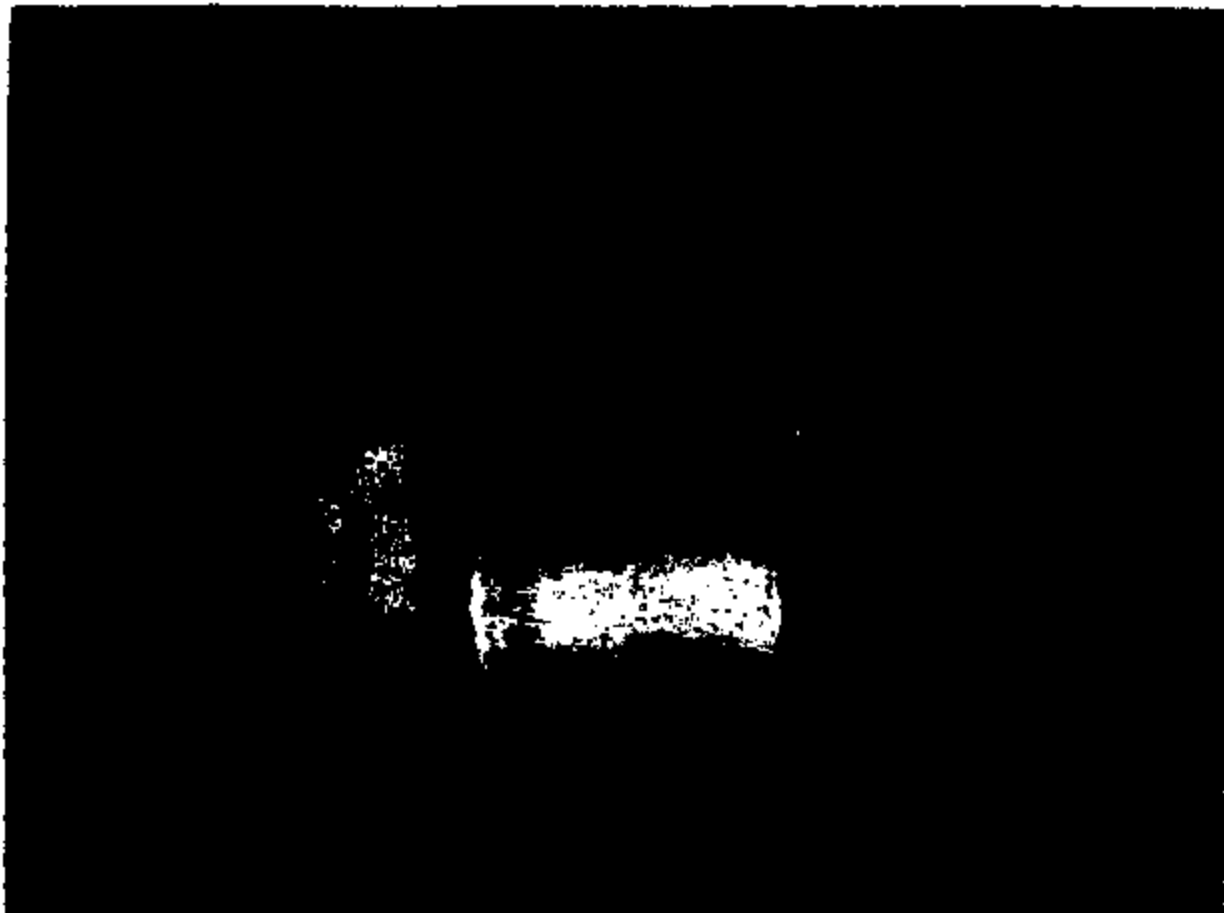
Digital Mavica Images

13 mavica images		772 Kbytes free		
<u>MVC-001F.JPG</u>	1999	8 24	6:07:04	PM
<u>MVC-002F.JPG</u>	1999	8 24	6:07:22	PM
<u>MVC-003F.JPG</u>	1999	8 25	3:53:20	PM
<u>MVC-004F.JPG</u>	1999	8 25	3:53:50	PM
<u>MVC-005F.JPG</u>	1999	8 25	3:54:00	PM
<u>MVC-006F.JPG</u>	1999	8 25	3:54:18	PM
<u>MVC-007F.JPG</u>	1999	8 28	12:26:52	PM
<u>MVC-008F.JPG</u>	1999	8 28	12:27:30	PM
<u>MVC-009F.JPG</u>	1999	8 28	12:29:56	PM
<u>MVC-010F.JPG</u>	1999	8 28	12:30:40	PM
<u>MVC-011F.JPG</u>	1999	8 28	12:32:24	PM
<u>MVC-012F.JPG</u>	1999	8 28	12:33:02	PM
<u>MVC-013F.JPG</u>	1999	8 28	12:33:40	PM

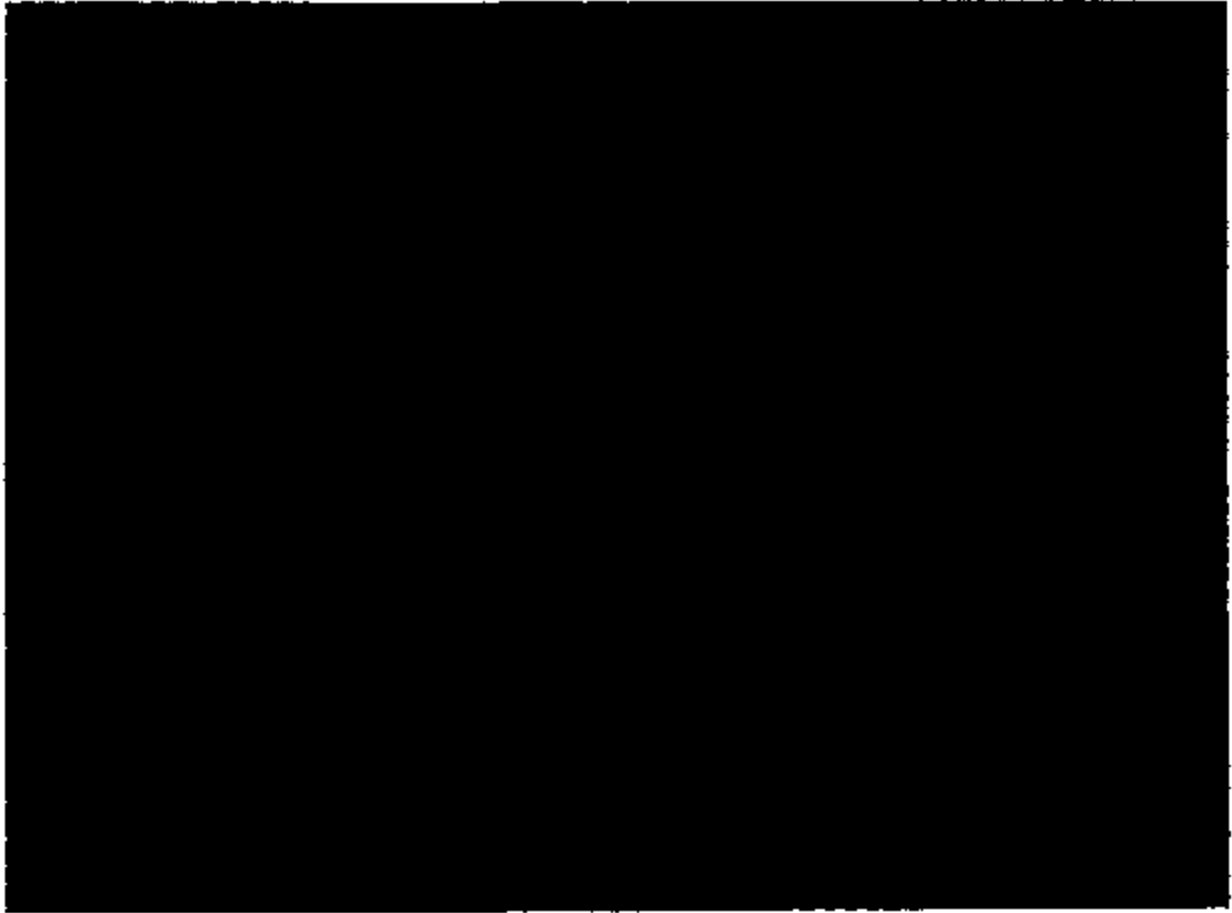
TI-NHTSA 9234



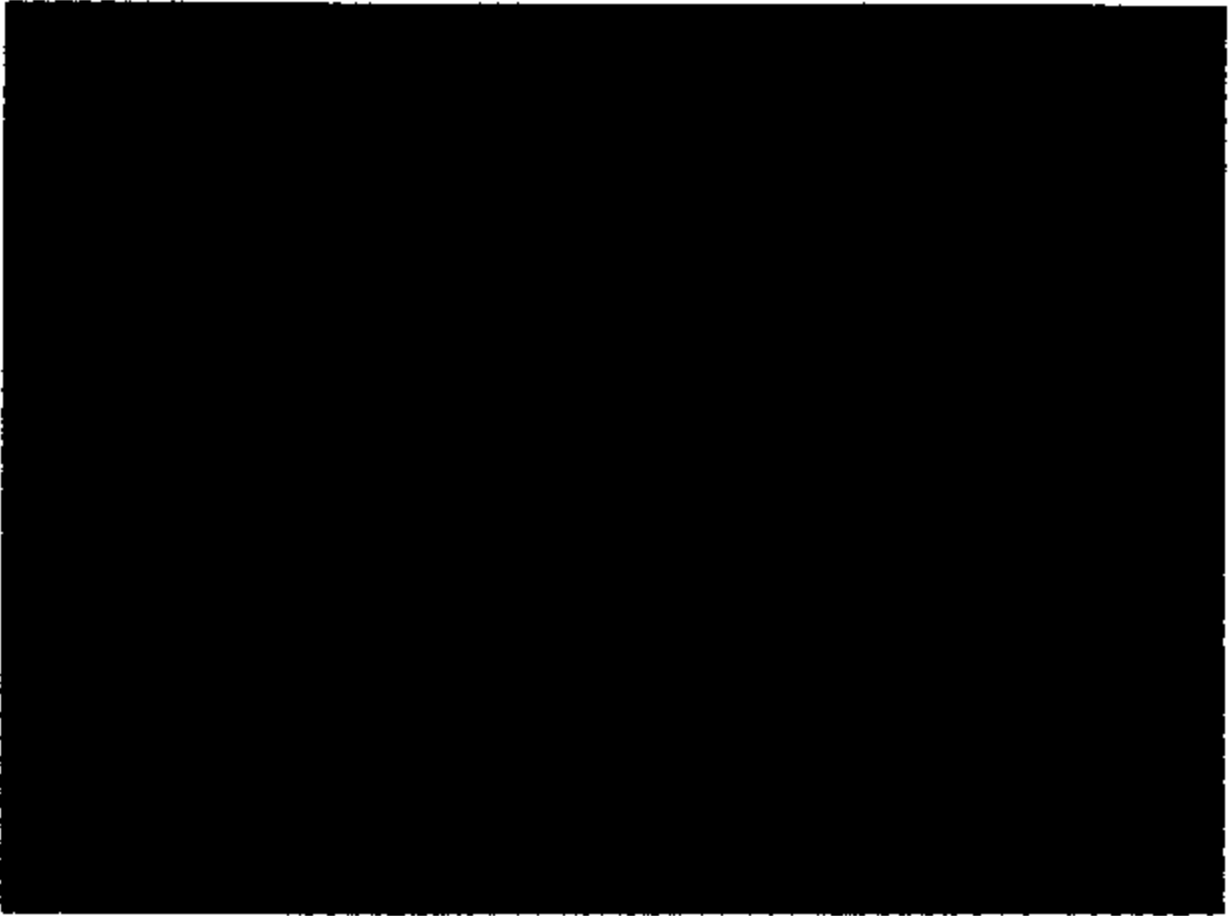
TI-NHTSA 9235



TI-NHTSA 9236



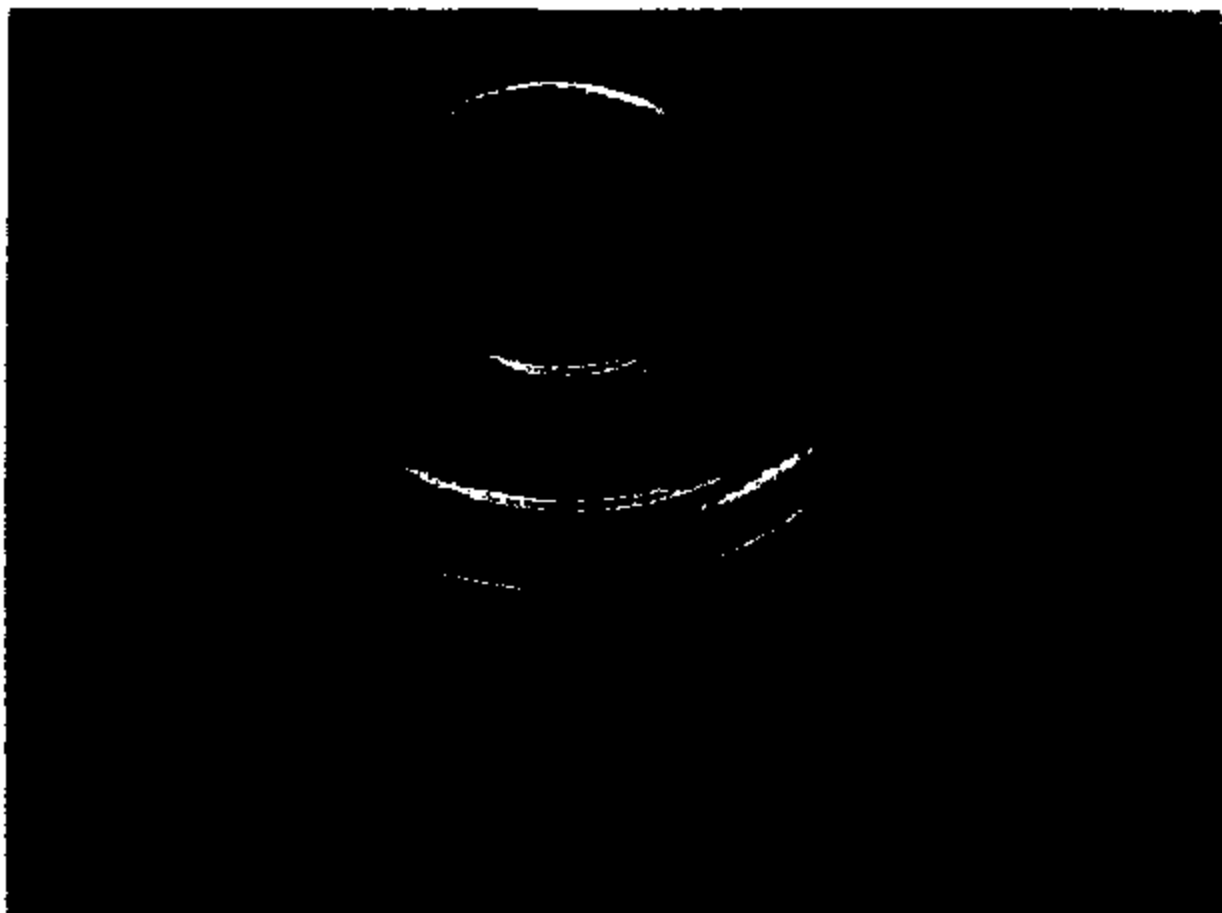
TI-NHTSA 9237



TI-NHTSA 9238



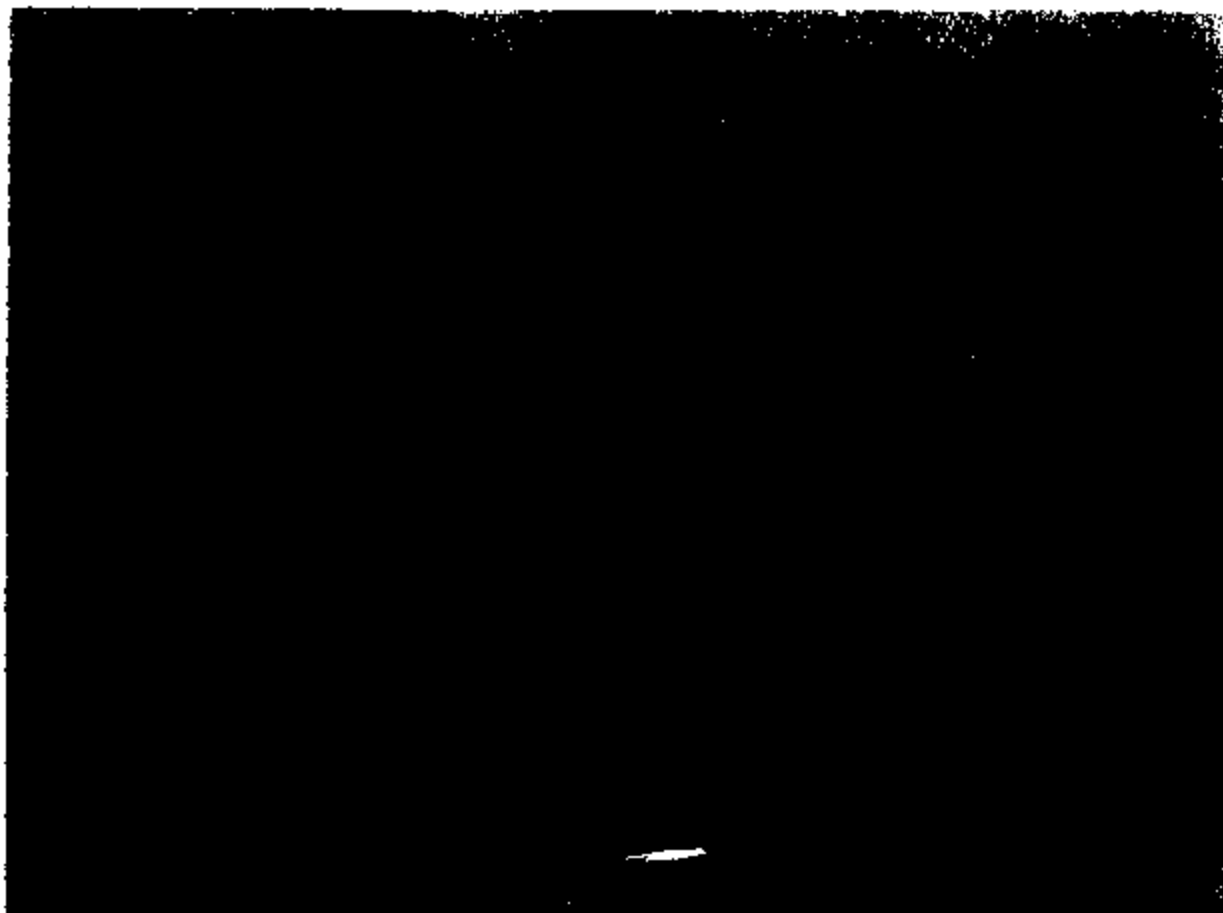
TI-NHTSA 9239



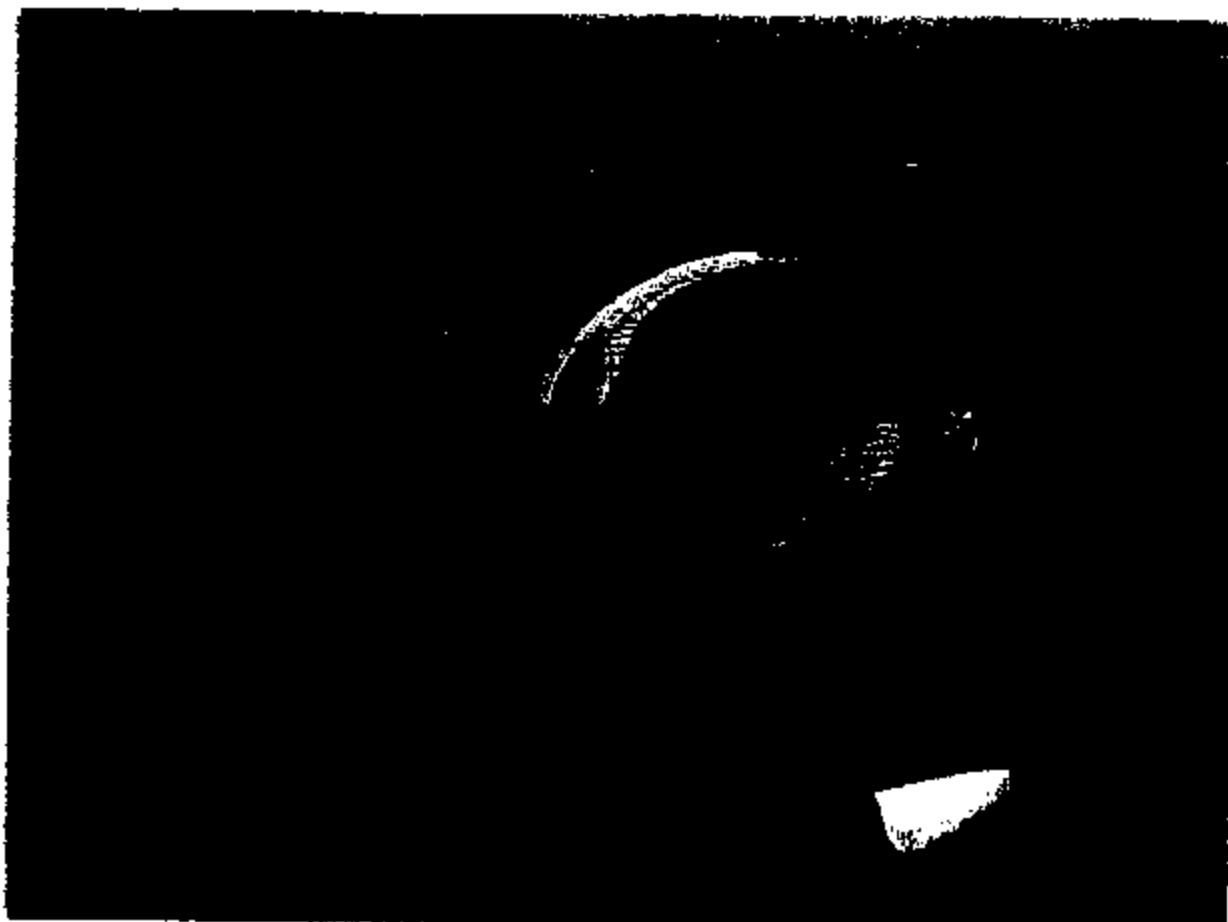
TI-NHTSA 9240



TI-NHTSA 9241



TI-NHTSA 9242



TI-NHTSA 9243

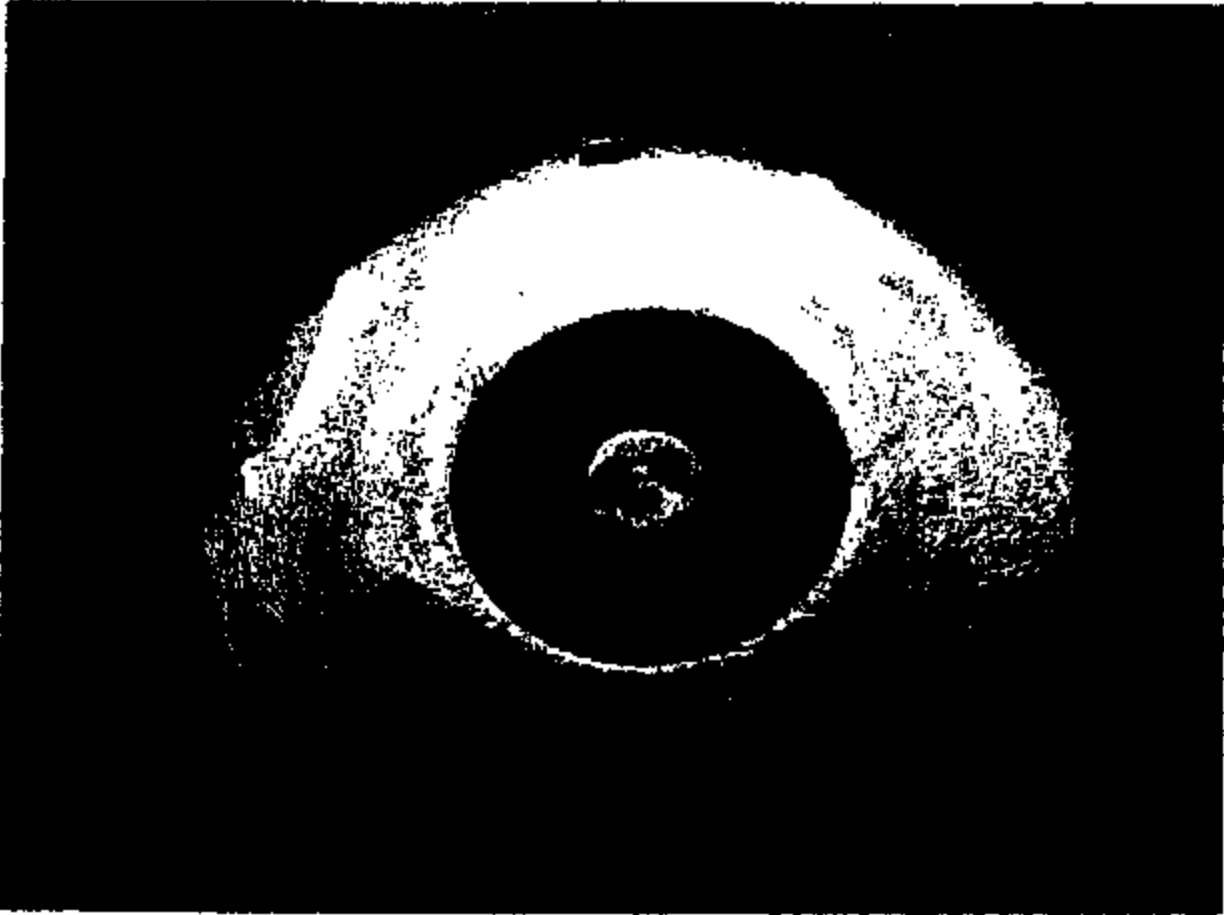


TI-NHTSA 9244





TI-NHTSA 9246



TI-NHTSA 9247

77PSL2-1 Return Analysis Sheet

Device ID: 77815 Date: 7-2-87 Part # AB
 Operator's Name: _____ Sw Date Code: 7-2-85 Technician: FBT

1 Visual Inspection
 General condition of Switch: Good Bad
 Signs of leakage into connector? No Yes
 Mating connector seal? Good Silicone
 compression?
 Wire harness returned? Yes No
 Wire insulation compression?

2 Current draw:
 Terminal to Terminal? 2.0 Ohms
 Terminal to Harness? 1.0 mA 14 Vdc supply Current limited to 10 amps.

3 Open Crimp Ring

4 Visual Inspection
 Connector Leak? No Yes
 Component wear? None Light Medium Heavy
 BP leak? No Yes
 Environment seal condition? Good Bad
 If seal bad, Why?
 Corrosion? Yes - outside No
 Pictures

5 Leak Test Sensor Asm. Pass Fail

6 Open Cup Crimp.

7 Displacement Inspection

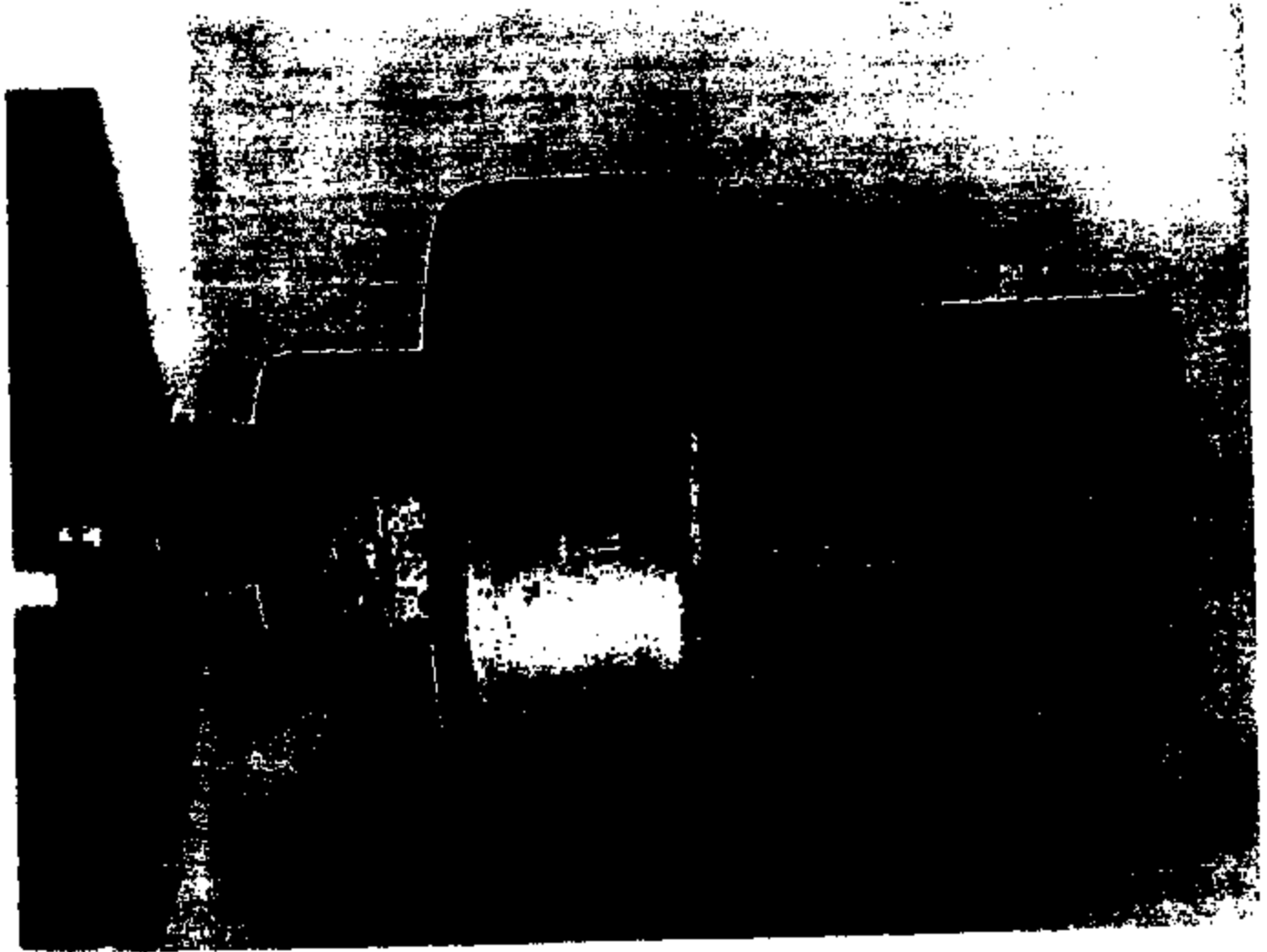
	Nearest Fluid			Middle			Nearest Converter		
	Fluid	Cl	Converter	Fluid	Cl	Converter	Fluid	Cl	Converter
Teflon scratch	✓		✓	✓		✓	✓		✓
Teflon crack									
Teflon contamination	✓		✓	✓		✓	✓		✓
Kapton scratch									
Stain patch	✓		✓	✓		✓	✓		✓
Wear particle/deposition	✓		✓	✓		✓	✓		✓

8 Gasket Inspection
 Present? Yes No
 Nibbling/missing material? Yes
 Gasket thickness: 0.025 inches
0.023 inches
0.021 inches

9 Package and Store

10 Analysis Summary: NTP Status: Closed

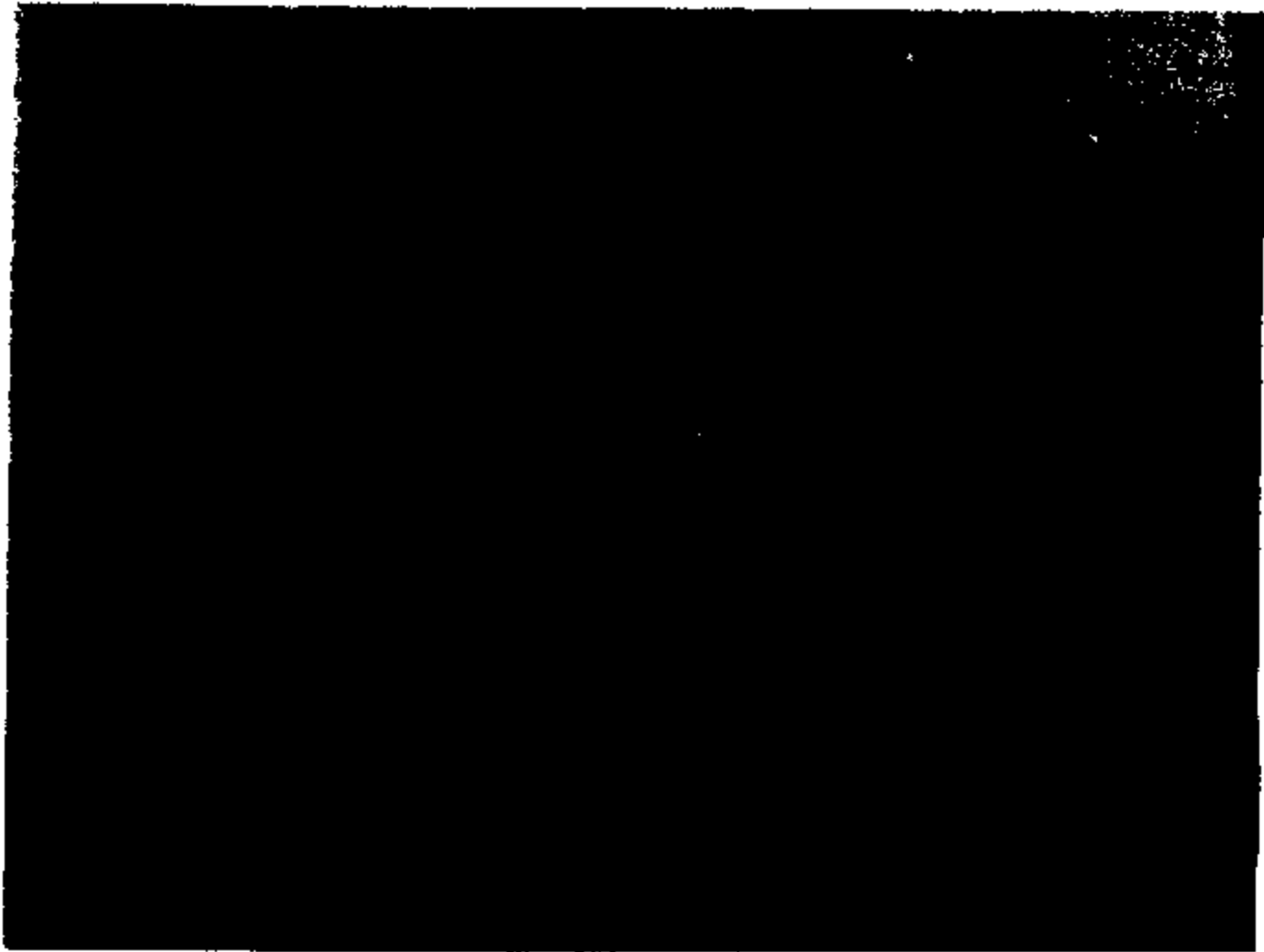
TI-NHTSA 9248



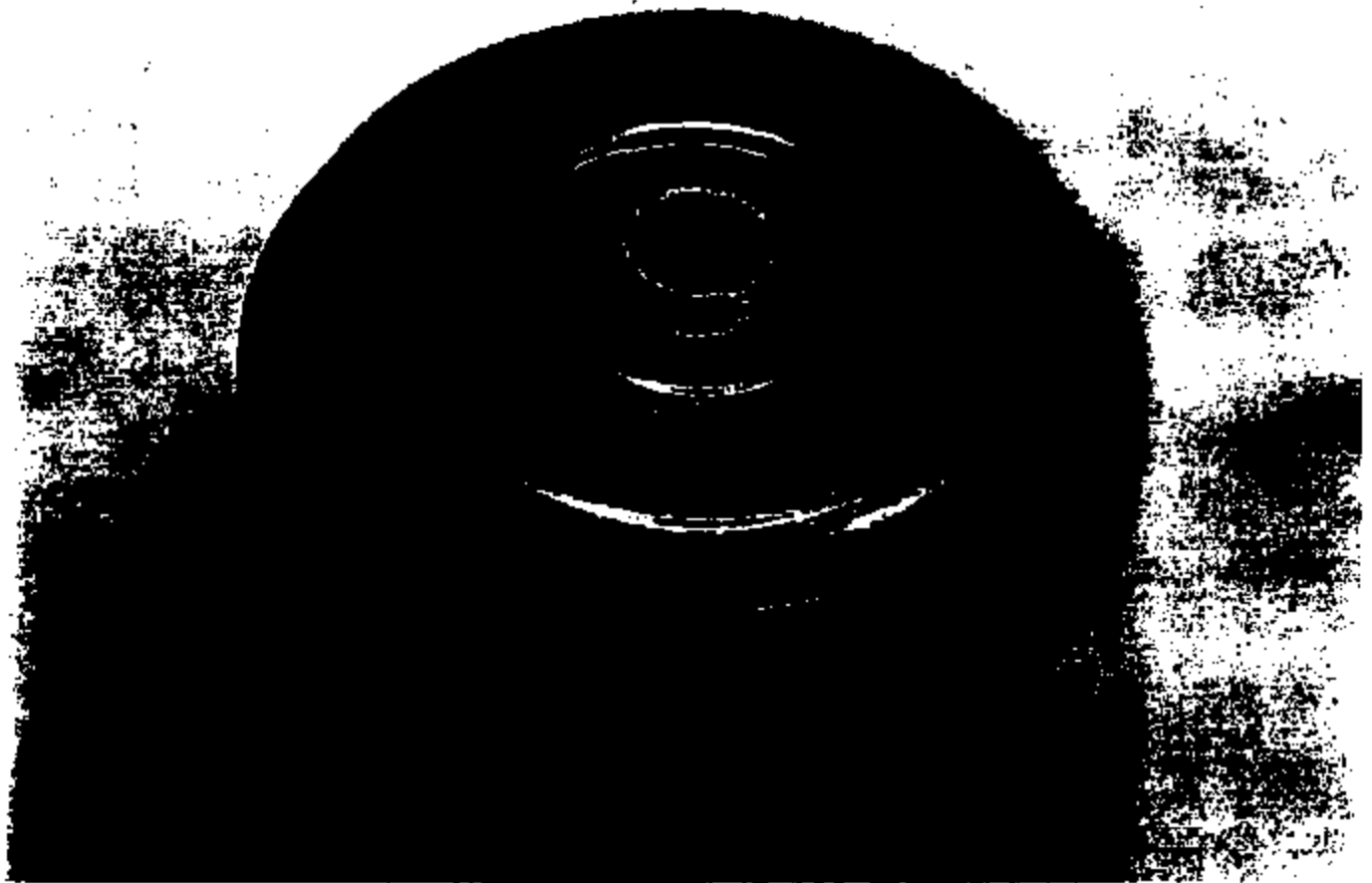
TI-NHTSA 9249



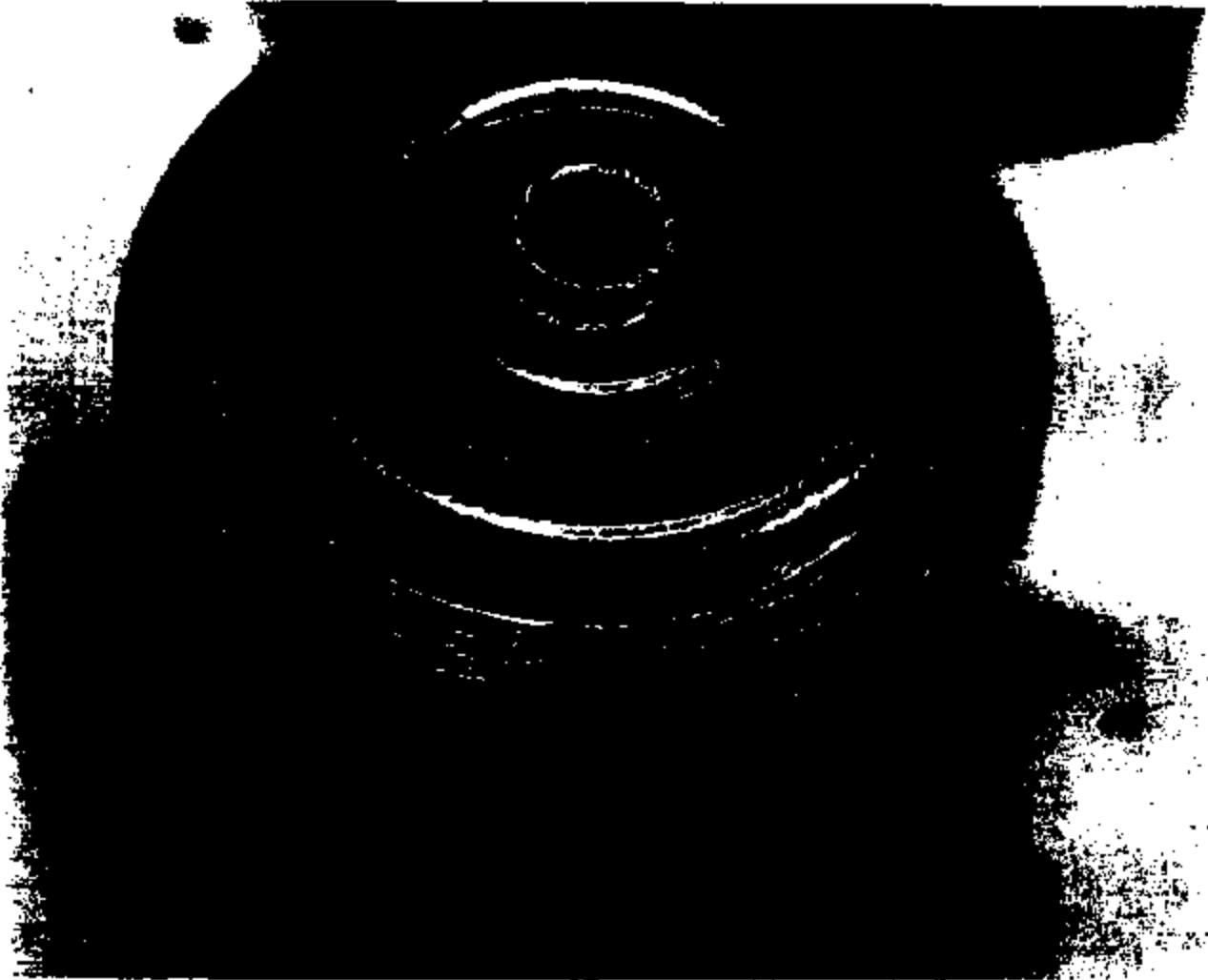
TI-NHT8A 9250



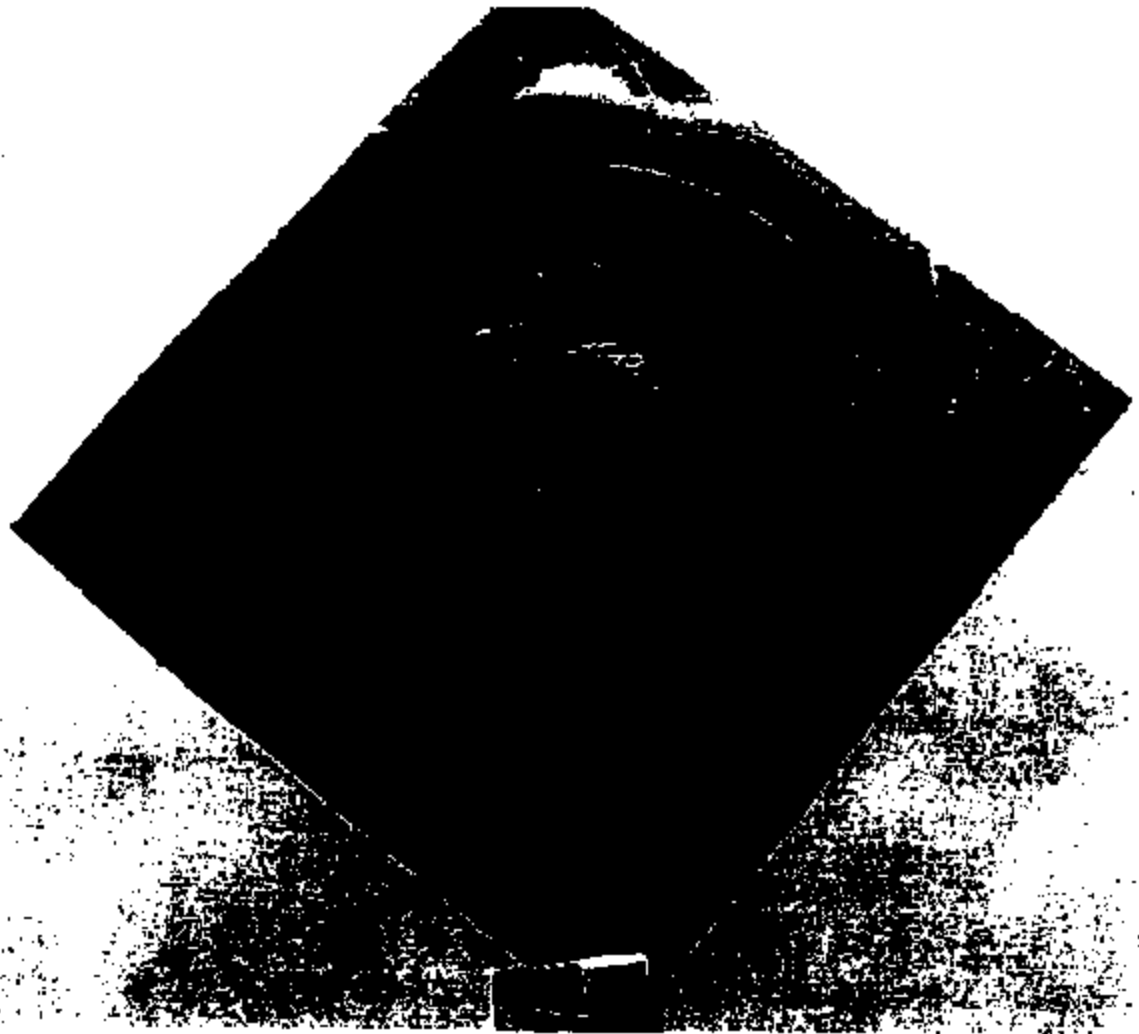
TI-NHTSA 9251



TI-NHTSA 9252



TI-NHTSA 9253



1 side

TI-NHT9A 9254



1 side 2

TI-NHTSA 9255



Foto 2

TI-NHTSA 9256



2 side 1

TI-NHTSA 9257



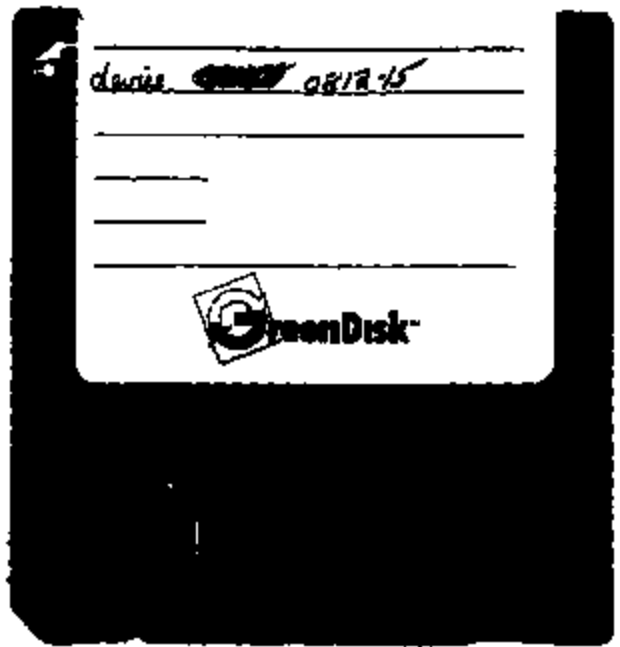
3 auto 1

TI-NHTSA 9258



3 side 2

TI-NHTSA 9259





1

2

3

4

5

6

7

8

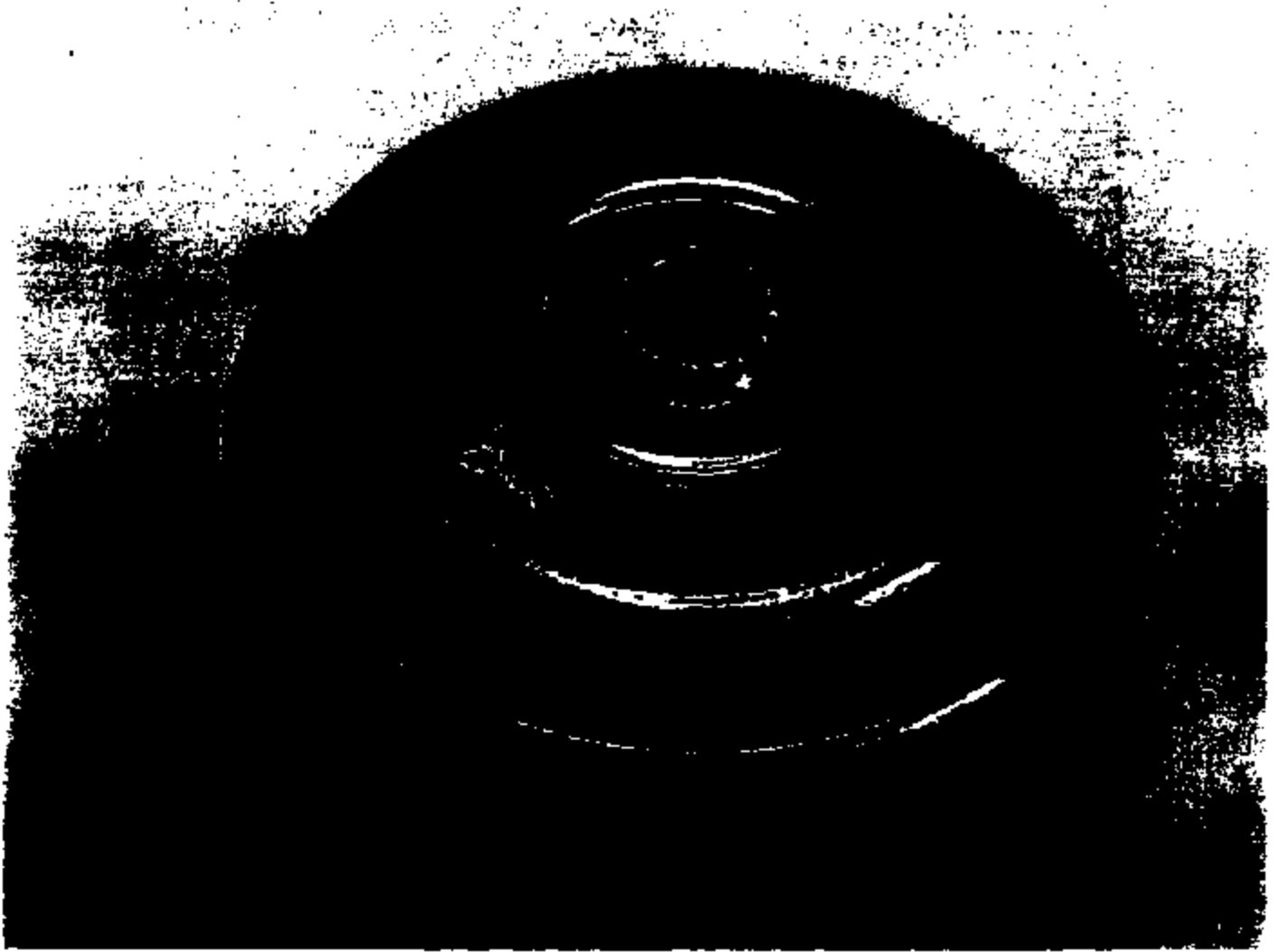
9

10

TI-NHTSA 9261



TI-NHTSA 9262



TI-NHTSA 9283



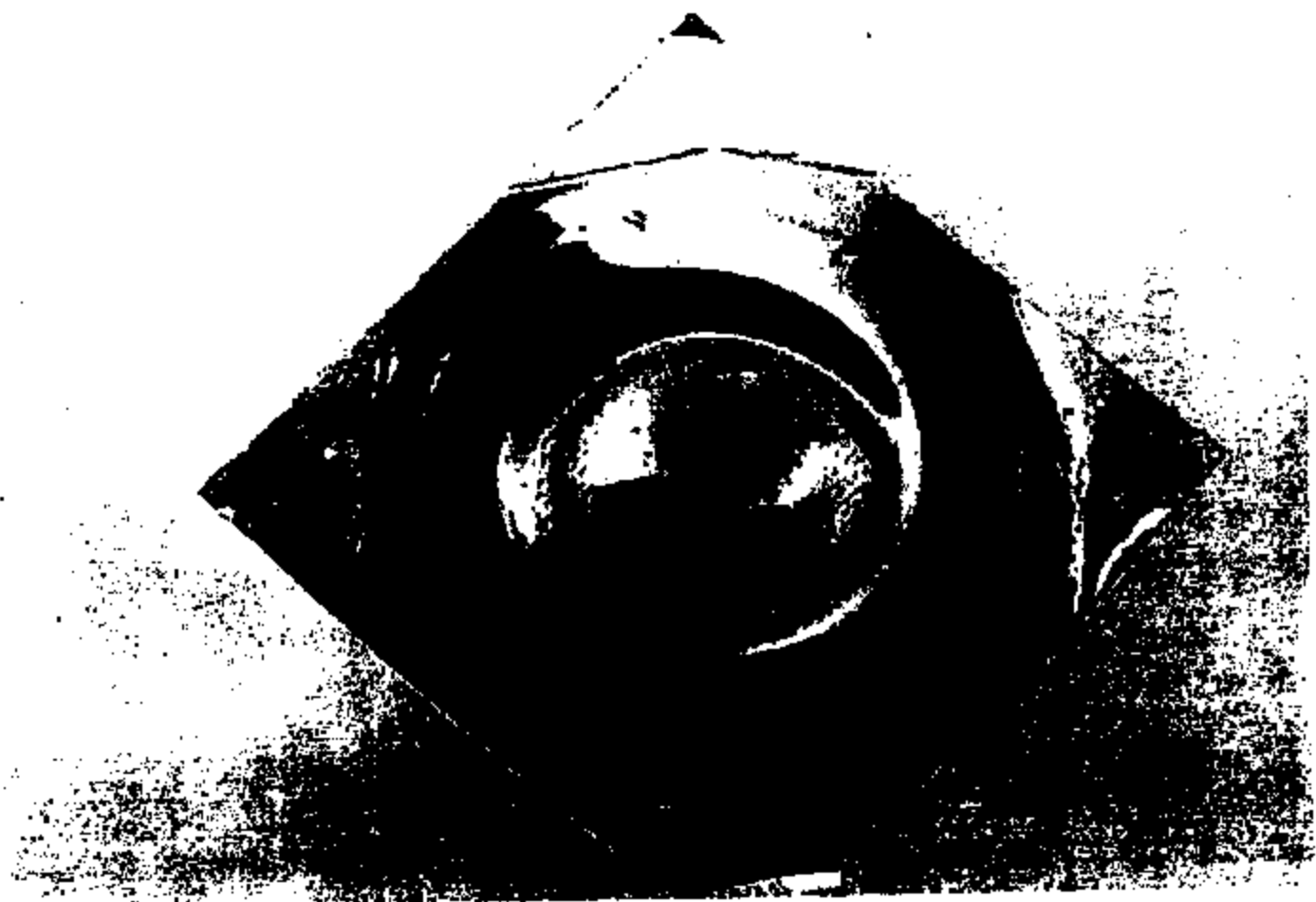
side 1

TI-NHTSA 9264



1 side 2

TI-NHTSA 9265



Slide 1

TI-NHTSA 9266



2 side 2

TI-NHTSA 9267



3 rislo1

TI-NHTSA 9268



3 side 2

TI-NHTSA 9269

device 0812-14

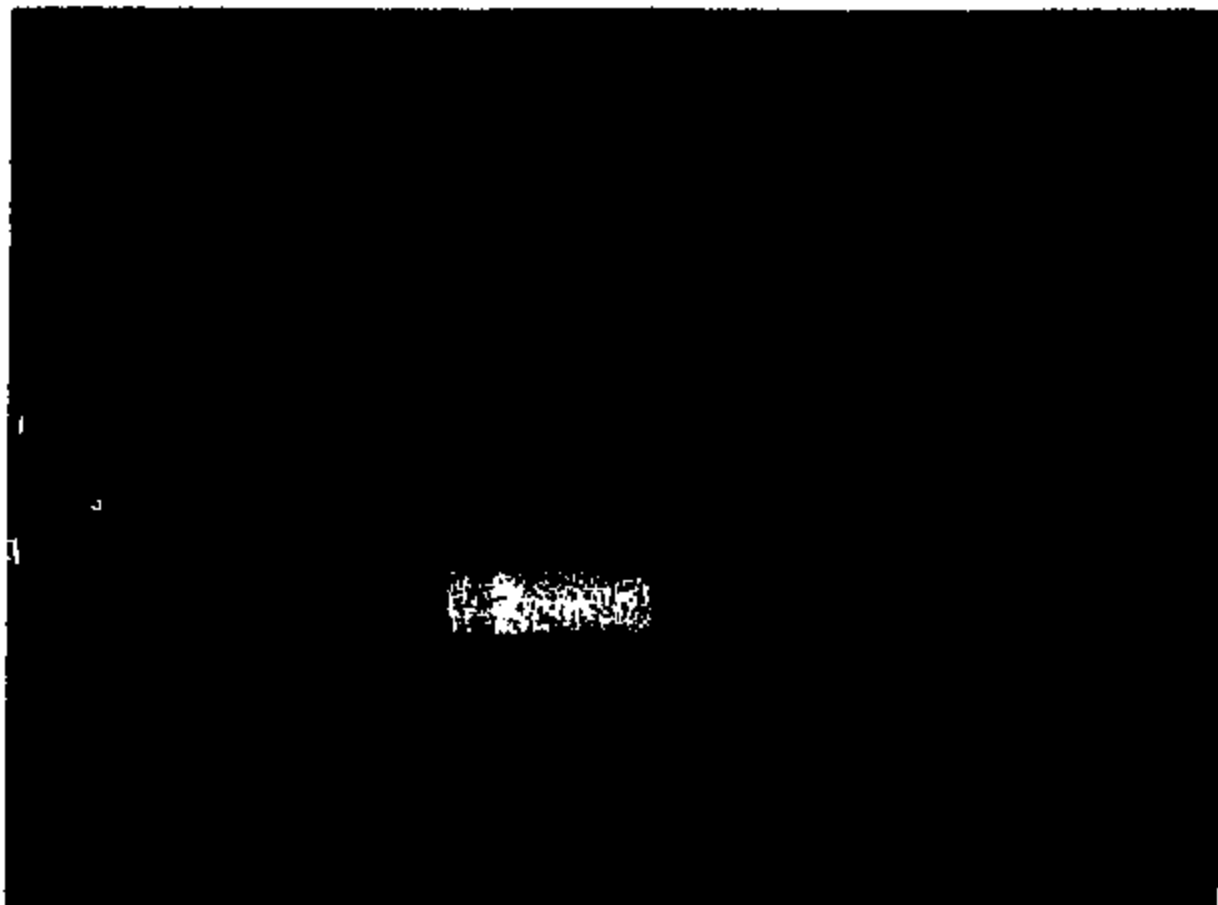


1999 8 28 11:53:36 AM MVC-FD91

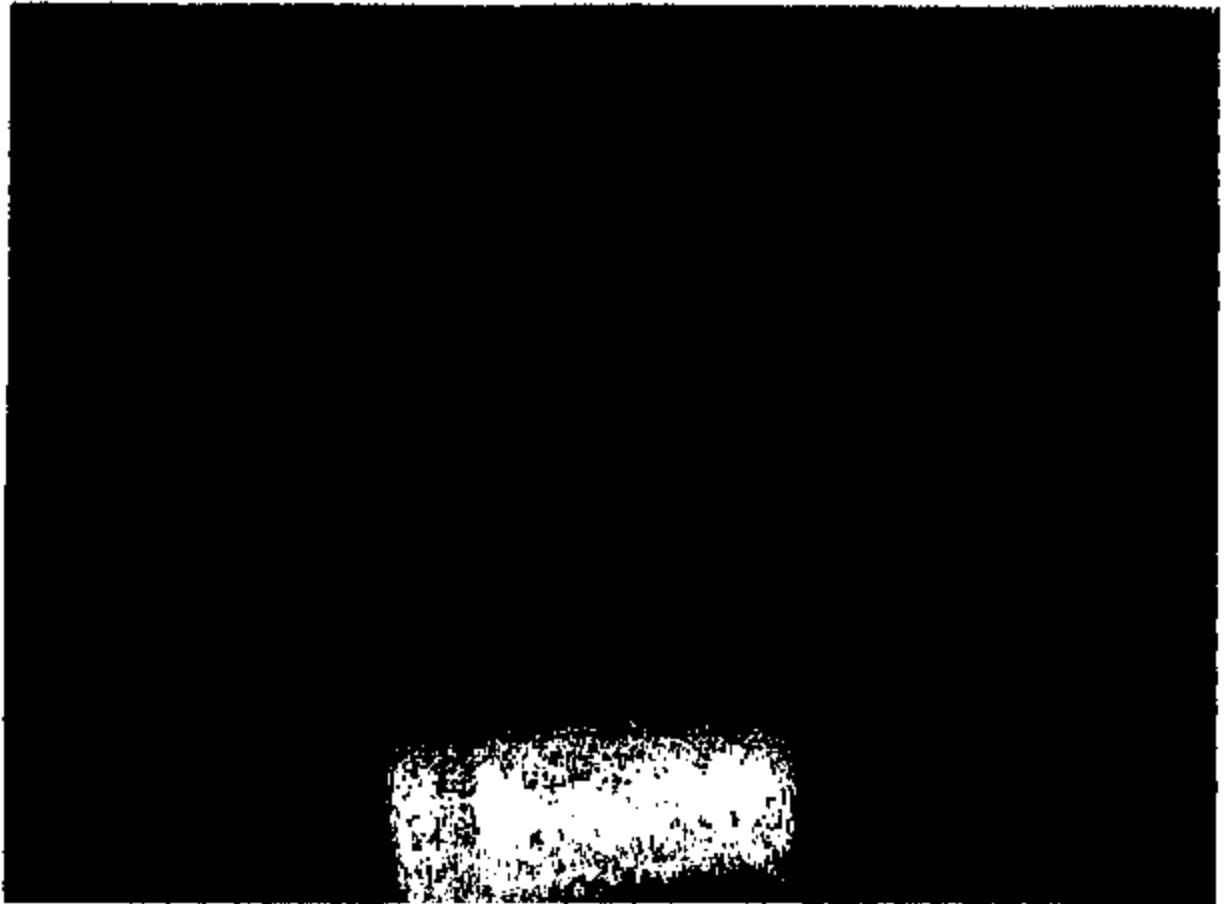
Digital Mavica images

13 mavica images		772 Kbytes free	
<u>MVC-001F.JPG</u>	1999	8 24	6:00:08 PM
<u>MVC-002F.JPG</u>	1999	8 24	6:00:28 PM
<u>MVC-003F.JPG</u>	1999	8 25	3:46:42 PM
<u>MVC-004F.JPG</u>	1999	8 25	3:46:52 PM
<u>MVC-005F.JPG</u>	1999	8 25	3:47:02 PM
<u>MVC-006F.JPG</u>	1999	8 28	11:30:22 AM
<u>MVC-007F.JPG</u>	1999	8 28	11:30:34 AM
<u>MVC-008F.JPG</u>	1999	8 28	11:31:48 AM
<u>MVC-009F.JPG</u>	1999	8 28	11:36:06 AM
<u>MVC-010F.JPG</u>	1999	8 28	11:36:30 AM
<u>MVC-011F.JPG</u>	1999	8 28	11:51:18 AM
<u>MVC-012F.JPG</u>	1999	8 28	11:52:20 AM
<u>MVC-013F.JPG</u>	1999	8 28	11:53:36 AM

TI-NHTSA 9271



TI-NHTSA 9272



TI-NHTSA 9273



TI-NHTSA 9274



TI-NHTSA 9275



TI-NHTSA 9276



TI-NHTSA 9277



TI-NHTSA 9278



TI-NHTSA 9279



TI-NHTSA 9280



TI-NHTSA 9281



TI-NHTSA 9282



TI-NHTSA 9283



TI-NHTSA 9284

77PSL2-1 Return Analysis Sheet

Device ID: 0812-14 Date: 8-12-79 Ford Part # AB
 Operator's Name: _____ Sw Date Code: 851 Technician Pat

1 Visual Inspection
 General condition of Switch: Good Bad
 Signs of leakage into connector? No Yes
 Mating connector seal? Foam Silicone
 compression?
 Wire Harness returned? Yes No
 Wire insulation compression?

2 Current draw:
 Terminal to Terminal? 2.5 Ohms
 Terminal to Harness? 1.2 mA 14 Vdc supply Current limited to 10 amps.

3 Open Crimp Ring

4 Visual Inspection
 Connector Leak? No Yes
 Component wear? None Light Medium Heavy
 BF leak? No Yes
 Environment seal condition? Good Bad
 If seal bad, Why?
 Corrosion? Yes No
 Pictures

5 Leak Test Sensor Ass. Pass Fail

6 Open Cup Crimp.

7 Diaphragm Inspection

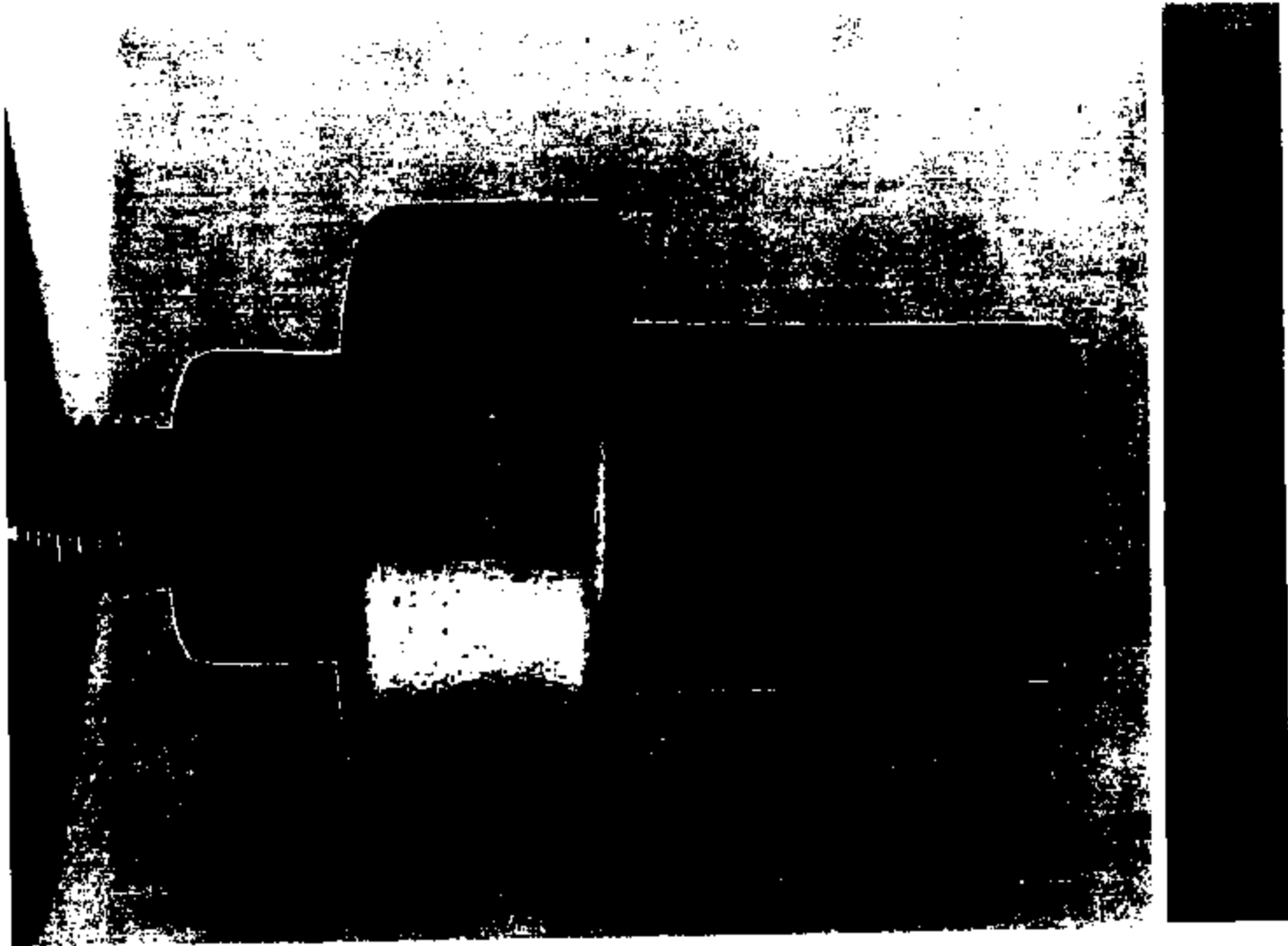
	Nearest Fluid			Middle			Nearest Converter		
	Fluid	#1	Converter	Fluid	#2	Converter	Fluid	#3	Converter
Teflon stretch	Y	Kapton	Teflon	Y	Kapton	Teflon	Y	Kapton	Teflon
Teflon cracks	Y		N	Y		N	Y		N
Teflon delamination	Y		N	Y		N	Y		N
Kapton cracks		N			N			N	
Stain pattern		Y			Y			Y	
Wear particles/dissolution	N		N	N		N	N		Y (10% max)

8 Gasket Inspection
 Present Yes No
 Nipple/misng material Yes No
 Gasket thickness
0.02305 inches
0.0233 inches
0.0231 inches

9 Package and Store

10 Analysis Summary: NTF Issue Discovered

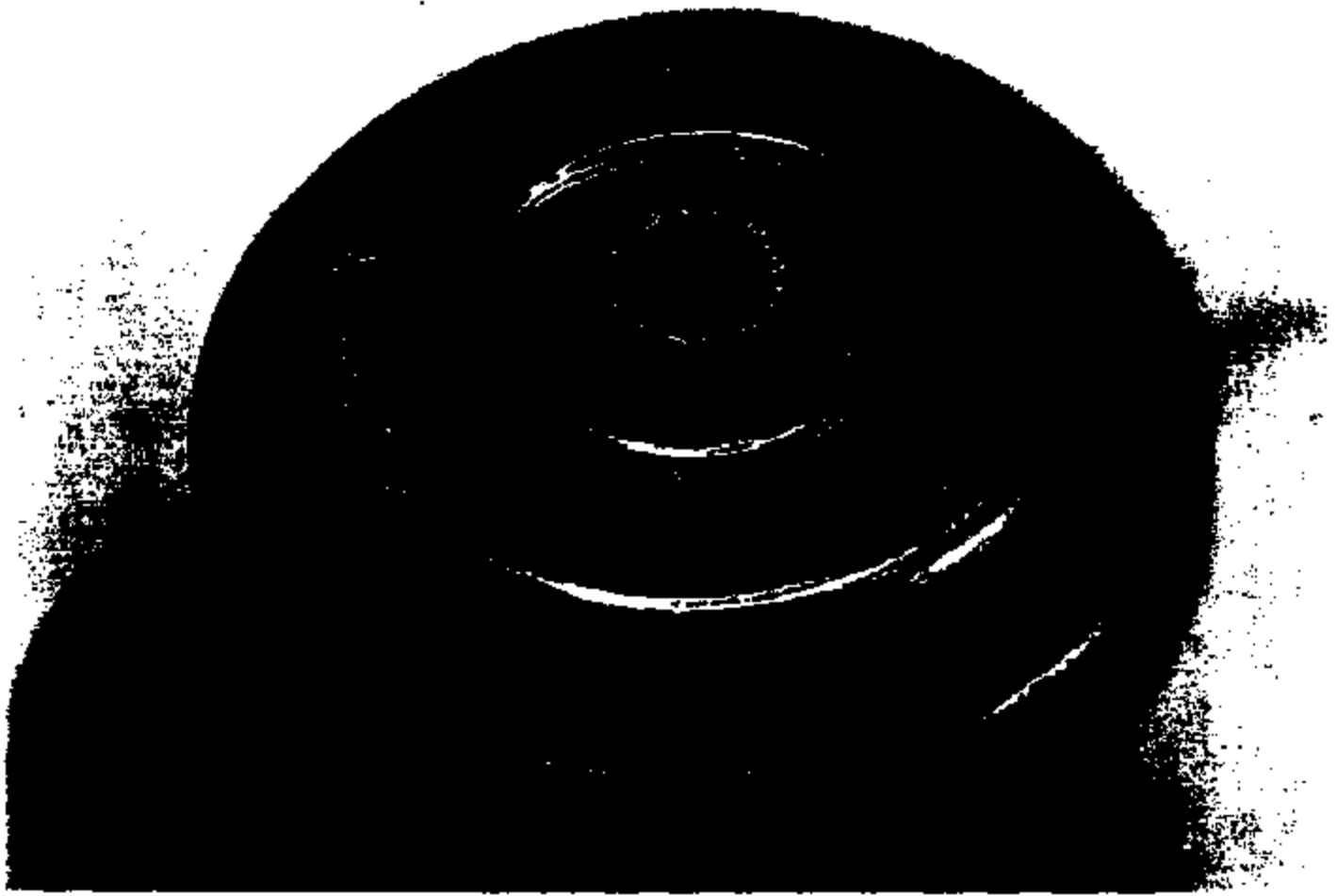
TI-NHTSA 9285



TI-NHTSA 9286



TI-NHTSA 9287



TI-NHTSA 9288



1 side 1

TI-NHTSA 9289



1 side 2

TI-NHTSA 9290



2 side 1

TI-NHTSA 9291



2 side 2

TI-NHTSA 9292



3 side 1

TI-NHTSA 9293