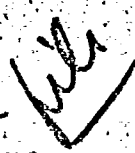


J.R. Farnham - St. Louis
J. Roder

October 8, 1968

Mr. Ray Gingle
Burny Bros. 
300 W. North Avenue
Northlake, Illinois 60164

Dear Mr. Gingle:

Regarding my visit last week to review the doughnut fryer installation, I would recommend that the following measures be taken to prevent recurrence of fluid degradation:

1. Have the system cleaned out completely by a company similar to Dow Industrial Service, Chicago Heights. I do not believe that a simple flushing with trichloroethylene will remove the contaminants.
2. After replacement of the expansion tank vent piping, I would suggest that an air dryer be installed to prevent the entry of moisture as the system "breaths". Air dryers are available from the following companies:

McIntire
22 Akner Parkway
Livingston, New Jersey

C. M. Kemp Manufacturing Co.
Glen Burnie, Maryland 21061

Lactro Dryer Division
McGraw-Edison Company
P. O. Box 1766
Pittsburgh, Pennsylvania 15230

3. Insist that the maximum heat release control on the Vapor heater not be readjusted to bring the system up to temperature faster.

DSW 434954

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During our visit it was found that the maximum heat release control was defective as on one occasion the burner released to high fire at ambient temperature. Release to high fire with fluid at room temperature can result in overheating and the formation of hydrogen chloride gas. In the presence of moisture this will form an acid and will attack the expansion tank and vent piping.

A new control was installed and set to keep the burner at low fire until the fluid reaches 190°F. This should prevent the overheating of the fluid, and with the elimination of moisture by the air dryer you should have trouble free operation.

Should you have any questions, do not hesitate to contact me.

Very truly yours,

James J. Roder
Heat Transfer Specialist
Therminol

JJR/ijn

cc: Mr. Peter Haag
Burny Bros.

R.K. Caldwell
Vapor Corp.
6420 W. Howard St.
Chicago, Ill. 60648

Mr. Henry Hartley
DCA
Ellicott City, Maryland 21043

DSW 434955

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