

bcc: AG Eades  
GR Buchanan  
2nd Street - Don Roush  
CHICAGO - DL Hosmer  
DETROIT - JG Hicks

June 17, 1965

Mr. J. B. Padberg  
Materials Co-ordinator  
for Mid-Central Division  
Frito-Lay, Inc.  
5545 Grandy Avenue  
Detroit, Michigan 48211

Dear Mr. Padberg:

Here is the analysis result of your recent THERMINOL FR-2 sample:

<u>PROPERTY</u>	<u>SAMPLE</u>
Acid Number	0.96 mgKOH/gm
Moisture	642 ppm
Viscosity @ 100°F.	60.0 centipoise

Mr. Padberg, the viscosity indicates there might be the possibility of contamination of the heat transfer liquid. Normal viscosities for new material are typically 65 centipoises. Our spec calls for a 75 centipoise maximum. The 60 centipoise reading is unusually low.

Further evidence that contamination is a possibility is the relatively high moisture content. Our spec calls for 50 parts per million maximum. Acid number, too, is high, with a spec limit of 0.01 maximum.

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Is it possible you have a leak in your cooking oil to THERMINOL heat exchanger? Have you experienced any pumping difficulty considering the high moisture content of the THERMINOL sample?

I recommend you send an additional sample as soon as possible so we can confirm these results as either a temporary situation or a continuing one.

Sincerely,

S. Shaw  
Market Specialist  
Functional Fluids

ff

cc: Mr. Tom Dufty  
Frito-Lay, Inc.  
5545 Grandy Avenue  
Detroit, Michigan 48211

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