

bcc: GRB/RD/NTJ/SS  
R. P. Sullivan - WILMINGTON

September 13, 1967

Mr. M. C. Brucksch  
Detergent Bar Supervisor  
Lever Brothers Company  
P. O. Box 1737  
Baltimore, Maryland 21203

Dear Mr. Brucksch:

The following analyses are reported on the sample of  
THERMINOL FR-2 submitted August 17, 1967:

| <u>Test</u>            | <u>8/17/67 Sample</u> | <u>New THERMINOL FR-2<br/>Specifications</u> |
|------------------------|-----------------------|----------------------------------------------|
| Viscosity              |                       |                                              |
| @ 100° P., Centistokes | 54.1                  | 52 maximum                                   |
| Acid Number, mg KOH/g  | 0.40                  | Less than 0.01                               |
| Moisture, PPM          | 70                    | Less than 50                                 |

The sample results on viscosity and acid number indicate slight decomposition of the THERMINOL FR-2 heat transfer fluid. Although a specification maximum of 52 Centistokes on viscosity is listed, production material rarely exceeds 45 Centistokes on viscosity. Using this as the base and considering, also, the increased acid number, which exceeds our arbitrary limit of 0.2 mg KOH/g, we can make the foregoing judgment on decomposition. The moisture level at this point is quite satisfactory.

May I suggest that you submit another sample of fluid for analysis the first week in October at which time we can make further judgment on the condition of fluid in your system.

DSW 435083

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If we can be of any assistance in the interim, please feel free to contact our District Office in Wilmington, Delaware ...

2005 Concord Pike  
Wilmington, Delaware 19803

Telephone: (312) OL 8-6531

... or contact me direct in St. Louis.

Very truly yours,

Donald E. Roush  
Engineering Specialist  
Functional Fluids

DER:la

DSW 435084

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