The DOW CHEMICAL COMPANY

DOWTHERM* *Heat Transfer Fluids* DOWTHERM*

Sample Analysis Report

xxxxxxx
Transmitter Site.

Sample Number: 2005-006-0099
Report Date: 01/17/2005

Sample Label Description: KXYX

		New Data	Acceptable
Appearance:			
Color		pink	---
Clarity		clear	clear
Sediment		none	none
Concentration & Freeze Point:			
Ethylene Glycol	vol% EG	29	25-60
Freeze Point		4 ∞F (-16 ∞C)	---
Corrosion Inhibitors:			
Iron inhibitor (phosphate)		acceptable	---
Copper inhibitor (azole)		acceptable	---
Fluid pH		8.2	8-10.5
Reserve Alkalinity	ml of 0.1N HCl	12.3	>8
Corrosives & Scale Promoters:			
Chloride	ppm Cl	5	<100
Sulfate	ppm SO4	0	<250
Total Hardness	ppm CaCO3	16	<100
Ferrous metal corrosion rate	mils per year (mpy)	0.14	<0.5
Copper corrosion rate	mils per year (mpy)	0.09	<0.5
Contaminants & Other Glycols:			
Nitrite	ppm NO2	0	<100
Nitrate	ppm NO3	0	<100
MBT	ppm MBT	0	<100
Propylene Glycol	vol% PG	0	<1
Diethylene Glycol	vol% DEG	0	<1
Triethylene Glycol	vol% TEG	0	<1

FLUID MAINTENANCE RECOMMENDATIONS:

The Dow Chemical sample analysis program by itself (analytical report and recommendations) is not designed nor intended to supercede the recommended practice of IOT equipment however the need for an analysis has been determined.

Please be advised that the unique configuration (small internal flow passages) coupled with unusually high metal surface temperatures have lead many IOT equipment suppliers to recommend disposal of glycol antifreeze (coolant) after being used for ONE winter season.

We strongly encourage you to consult with your IOT equipment supplier (especially if the analysis shows data out of range) to determine recommended operating practices. As always we would be happen to discuss this issue with you.This fluid is in good condition and is suitable for continued use. No adjustments or inhibitors are needed at this time.

**** denotes a registered trademark of the Dow Chemical Company***

This information is not to be taken as a warranty or representation for which we assume legal responsibility nor as permission or recommendation to practice any patented invention without a license. It is offered solely for your consideration, investigation and verification.

The Dow Chemical Company ï Thermal Fluids Testing Lab ï 1691 N. Swede Road ï Midland MI 48674
For technical assistance regarding this report please contact Jill Rose-Feusse at 989-636-5530
For sales and general information about our products please contact Dow Customer Service: 1-800-447-4369