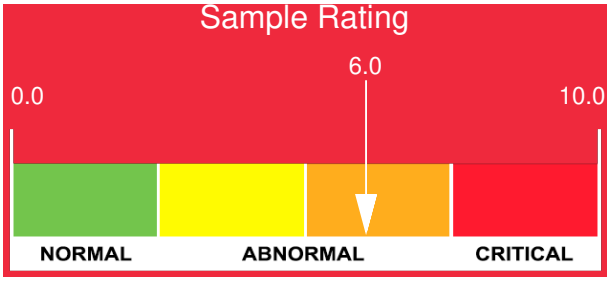
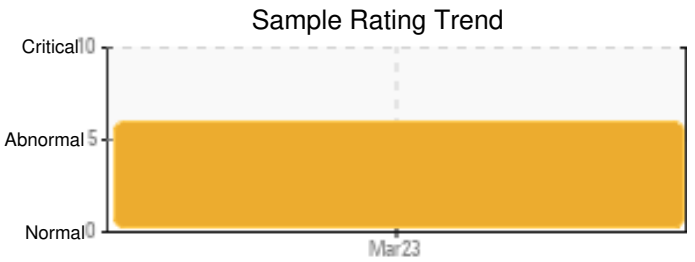




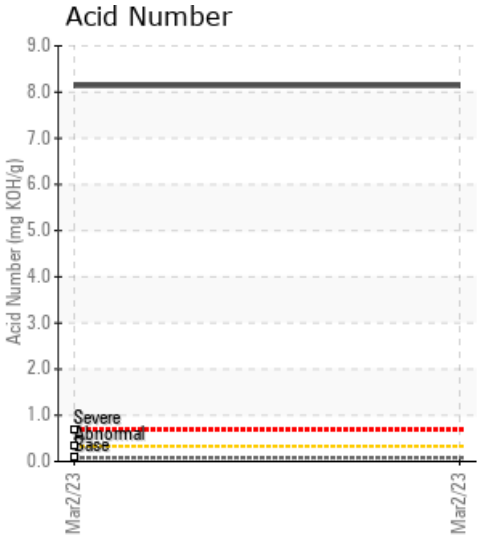
IDEMITSU DAPHNE QUENCH

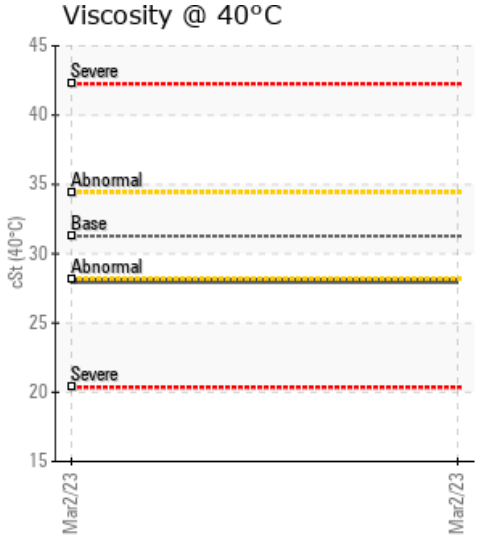
Customer:	System Information	Sample Information
CANADIAN CHEMICAL CLEANING 1099 HWY #6, R.R. #2 HAMILTON, ON L8N 2Z7 CA Attn: Len MacDonald Tel: (905)689-2266 E-Mail: len.macdonald@reladyne.com	System Volume: 0 gal Bulk Operating Temp: Not Specified Heating Source: Blanket: Fluid: IDEMITSU DAPHNE THERMIC OIL 32-S Make:	Lab No: 02545619 Analyst: Bill Quesnel CLS,OMA II,MLA-III,LLA-I Sample Date: 03/02/23 Received Date: 03/15/23 Completed: 04/14/23 Bill Quesnel CLS,OMA II,MLA-III,LLA-I

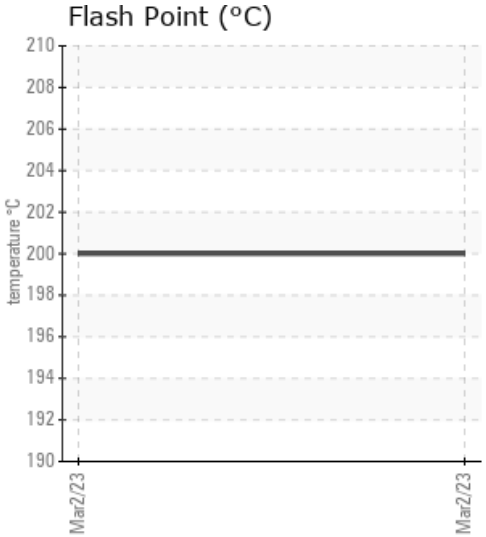
Recommendation: We recommend an early resample to monitor this condition. Diagnostician's Note: The thermal fluid boiling points and viscosity are in good efficiency range, however, acid number result is extremely high, and likely the thermal fluid will be corrosive to the system. Recommend resample in 3 months to monitor.

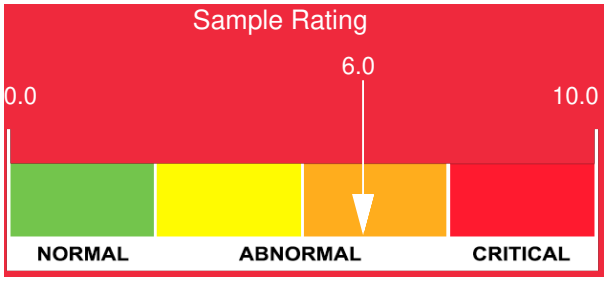
Comments: There is a moderate concentration of water present in the fluid. Acid Number (AN) is severely high. (GCD) 90% Distillation Point is severely low. The high AN level of the fluid indicates the presence of oxi-polymerized products. The AN level is much higher than the recommended limit.

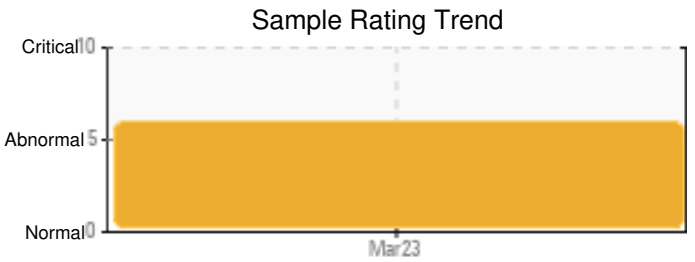
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
03/02/23	03/15/23	0.0h		392 / 200	420.9	28.0	8.14	0.172	691 / 366	771 / 411	866 / 463	3.77
Baseline Data				439 / 226		31.27	0.08		693 / 367	799 / 426	903 / 484	3.4





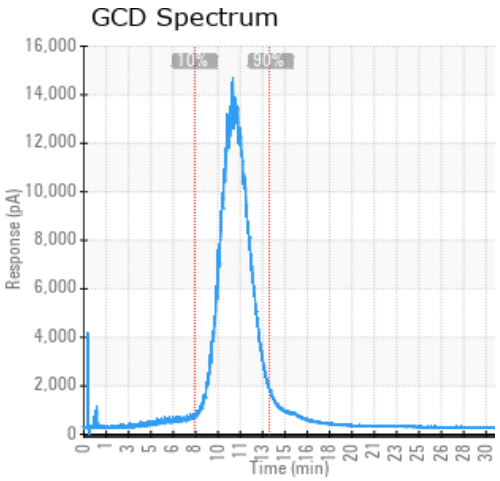


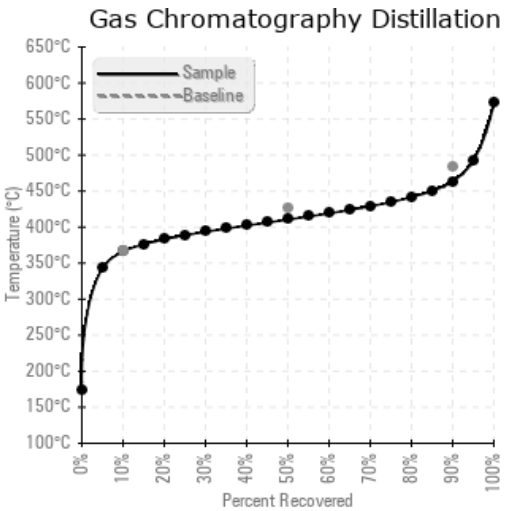


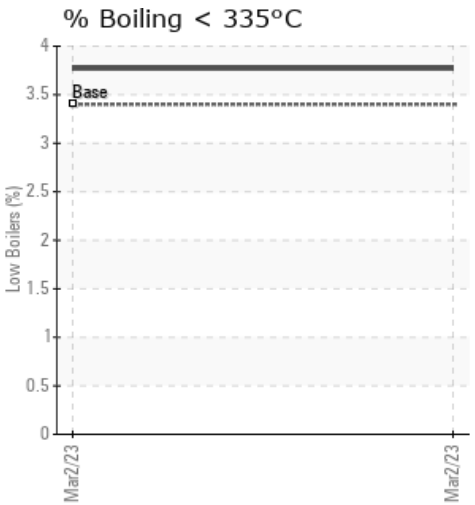


Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
03/02/23	65	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Baseline Data			0	0						0			0	0				0	0				0	

Elemental anaysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]







Historical Comments

