

Recommendation: Sample results indicate that the heat transfer fluid is suitable for continued service. Please re-sample in 12 months and please ensure sample valve and piping is thoroughly purged prior to taking the sample

Comments:

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	%
08/24/20	09/23/20	9у	MAIN INLET TO DRUM	421 / 216	245.2	29.9	0.12	0.163	706 / 374	801 / 427	890 / 477	1.45
12/19/19	02/04/20	9у	SURGE TANK	428 / 220	243.1	26.8	0.099	0.088	734 / 390	797 / 425	874 / 468	0.00
11/19/18	11/27/18	8y		417 / 214	116.4	30.7	0.01	0.025	700 / 371	797 / 425	887 / 475	1.41
10/04/18	10/10/18	8y		403 / 206	3150.4	31.3	0.25	0.049	714 / 379	784 / 418	866 / 463	0.00
04/11/18	04/18/18	7у		414 / 212	765.6	30.6	0.078	0.053	699 / 371	800 / 427	889 / 476	1.56





12/19/19	sample within 12 months.
11/19/18	Sample results indicate that the fluid is suitable for continued service. please re-sample in 12 months
10/04/18	Water contamination is present. This presents a safety risk as fluid could experience boil-over. Please ensure system is sealed off from exposure to outside water and that all fluid transfer devices and hoses are free from water. Ensure that all Petro- Therm added to the system is free from water contamination. Take measures water from system safely Aside from boil-over, water can accelerate oxidation of the fluid which can also promote corrosion of metal surfaces. Please note that Acid Number has increased from 0.078 last sample to 0.25 this sample. Asion note that from has increased from -1 ppm in this sample. Aside from the water, the fluid health is acceptable for continued service. 90% distillation is lower than normal but shouldn't affect system performance. Re-sample once water has been removed and measures to prevent water contamination have been put in place. Water contamination levels are severely high. (GCD) 90% Distillation Point is marginally low.
04/11/18	Sample results indicate that the thermal fluid is suitable for continued service. Please note water level. Ensure system is sealed from outside precipitation. Excess water can also collect in a dead leg, and if sample was pulled from a dead leg or low lying valve without a thorough purge, water content can appear to be more than what is actually in the system. Ensure sample is drawn near pump discharge and that a thorough purge precedes drawing of the sample. Re-sample in 12 months. Water contamination levels are abnormally high. ppm Water contamination levels are abnormally high.

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