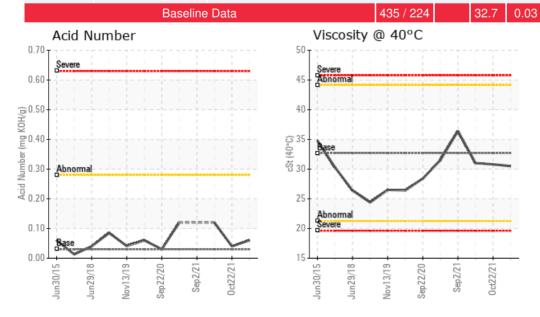


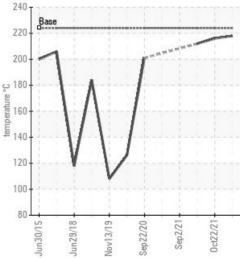
Recommendation: Sample results indicate that the fluid is in suitable condition for continued service. Resample in 12 months

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	%
01/14/22	02/04/22	0.0w	hot oil pump 1	424 / 218	308.7	30.5	0.06	0.034	703 / 373	804 / 429	899 / 482	1.90
10/22/21	11/02/21	0.0w	HOT OIL PUMP #1	421 / 216	254.8	30.8	0.04	0.053	705 / 374	805 / 429	899 / 482	1.72
10/04/21	10/13/21	0.5w	after pump	414 / 212	578.5	31.0	0.12	0.178	704 / 373	804 / 429	897 / 481	2.00
09/02/21	09/20/21	14.0w			1020.7	36.4						
09/02/21	09/20/21	14.0w			43438.9	31.5	0.12	0.416	229 / 109	294 / 146	856 / 458	60.62

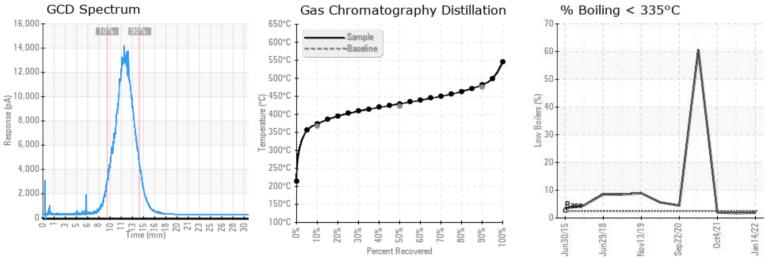


Flash Point (°C)



693 / 367 790 / 421 887 / 475 2.5





Historical Comments

10/22/21	Sample results indicate that the fluid is in suitable condition for continued service. Metals, and contamination are all very low. Water has been reduced to a safe level but is still higher than 2020 samples. Viscosity and flashpoint are in spec and acid # is low. GCD is good and pentane insolubles are low. Resample in 1 year.
10/01/21	Fluid appears to be in good condition other than the water content being in alarm. Water content is at much lower levels than previous samples. It would be best to boil off the water and vent the steam to ensure there are no unwanted boil overs and reduce the corrosion risk. Fluid is Calfo AF not HTF Water contamination levels are marginally high.
09/02/21	We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. Lubritest recommends using HTTFL sample kits for heat transfer fluids. Please contact us at 1-800-268-2131 and provide a purchase order for \$245 + HST in order to conduct additional testing (boiling points @ 10%, 50%, and 90%, percent boiling < 335°C, and solids) to determine the suitability for continued use. Please contact your representative for information regarding the proper sampling kits for your service. (not applicable) There is a high concentration of water present in the fluid. (not applicable)
	NOTE: GCD results are skewed by the high water content. Sample was collected at an improper location, Keyera has collected a new sample waiting for results. Water contamination levels are severely high. Use a barrally high. (GCD) % < 335°C is severely high. (GCD) 10% Distillation Point is severely low. (GCD) 50% Distillation Point is severely low. (GCD) 90% Distillation Point is severely low. Boron ppm levels are abnormally high.

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