

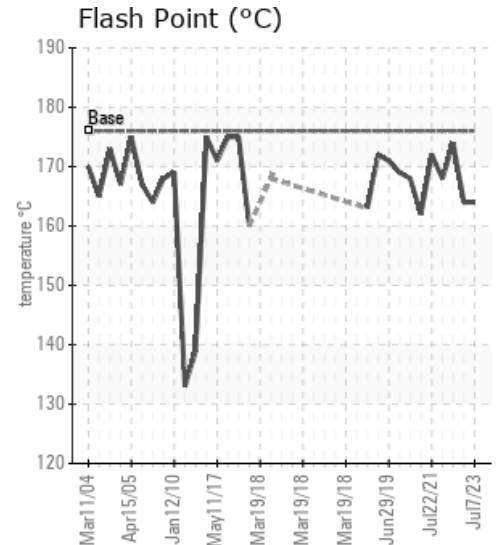
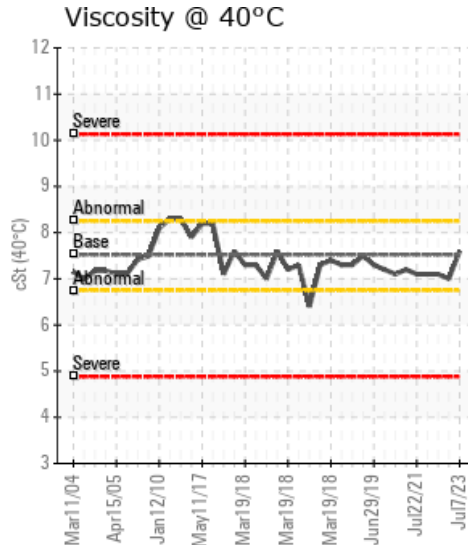
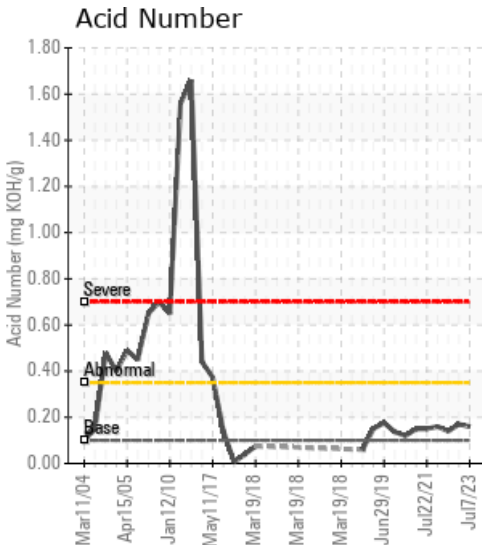
# POWDER SLUSH HOT OIL

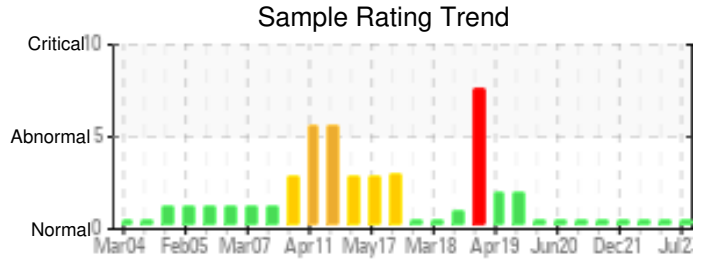
Customer: PTRHTF30023	System Information	Sample Information
INOAC INTERIOR SYSTEMS 575 JAMES STREET SOUTH ST MARYS, ON N4X 1B9 CA Attn: Brent Dietrich Tel: (519)808-0372 E-Mail: bdietrich@inoacusa.com	System Volume: 14000 ltr Bulk Operating Temp: 500F / 260C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO LT Make: BP&R CONSTRUCTION	Lab No: 02568914 Analyst: Yen Garcia Sample Date: 07/07/23 Received Date: 07/10/23 Completed: 08/09/23 Yen Garcia yen.garcia@HFSinclair.com

Recommendation: The fluid remains within optimal parameters and the tests results are similar to the previous one. No further actions are required at this time.

Comments:

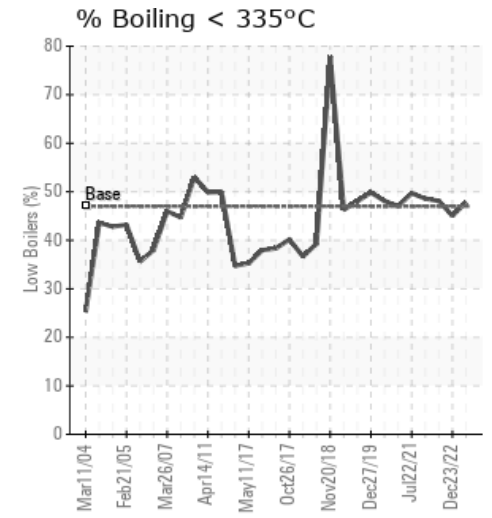
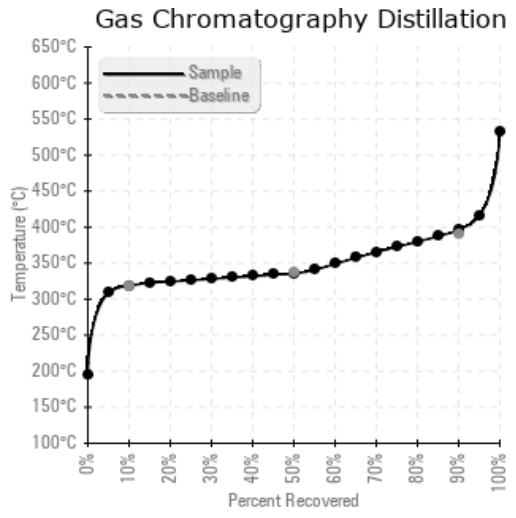
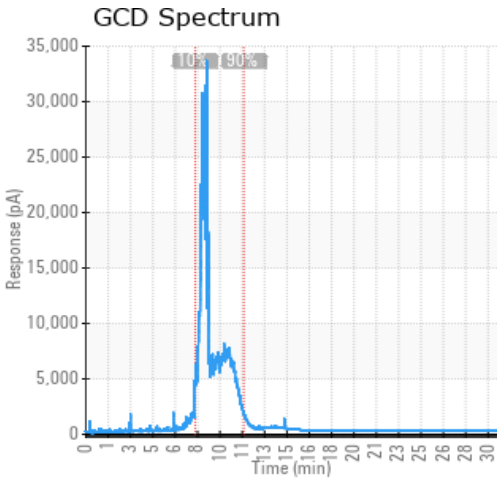
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
07/07/23	07/10/23	0.0h	RETURN	327 / 164	27.7	7.6	0.16	0.043	605 / 319	636 / 336	745 / 396	47.81
12/23/22	01/05/23	0.0h	HOT OIL RETURN	327 / 164	13.5	7	0.17	0.054	609 / 321	638 / 337	742 / 394	45.04
08/02/22	08/08/22	0.0h		345 / 174	26.1	7.1	0.14	0.318	607 / 320	636 / 335	739 / 393	48.11
12/24/21	01/07/22	0.0h		334 / 168	7.5	7.1	0.16	0.027	606 / 319	636 / 336	739 / 393	48.57
07/22/21	07/23/21	0.0h		342 / 172	19.9	7.1	0.15	0.102	606 / 319	635 / 335	736 / 391	49.69
Baseline Data				349 / 176		7.52	0.1		604 / 318	640 / 338	734 / 390	47.0





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
07/07/23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	1
12/23/22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101	0
08/02/22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93	0
12/24/21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
07/22/21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106	0
Baseline Data			0	0						0			0	0				0	0				270	

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



Historical Comments	
12/23/22	All sample test results are within specs. Please, keep monitoring.
08/02/22	No action needed at this time.
12/24/21	Sample results indicate that the fluid is suitable for continue use. Please, sample at the next appropriate interval (6 to 9 months). No action needed at this time.
07/22/21	Current heat transfer fluid Calflo LT sample for the Hot Oil system indicates no issues. All performance parameters such as Viscosity, Total Acid Number (TAN), Flash Point, GCD, and Pentane Insolubles are typical for a heat transfer fluid in service. Calflo LT is suitable for continued service. Resample at the next interval (6 - 9 months).

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