

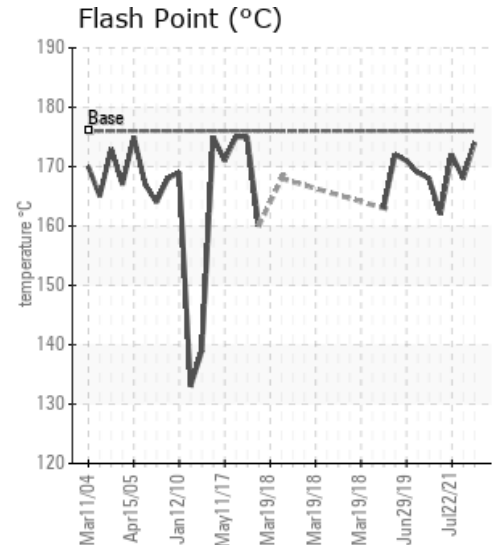
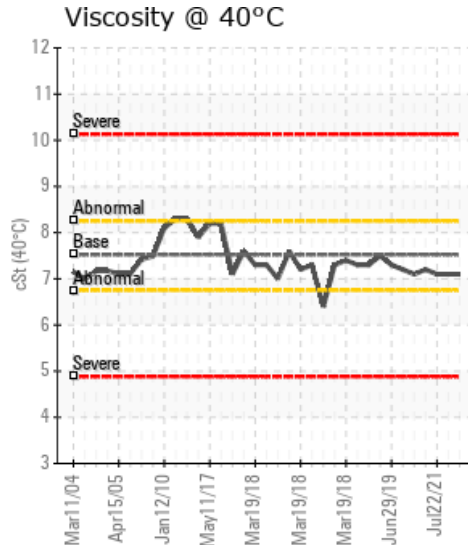
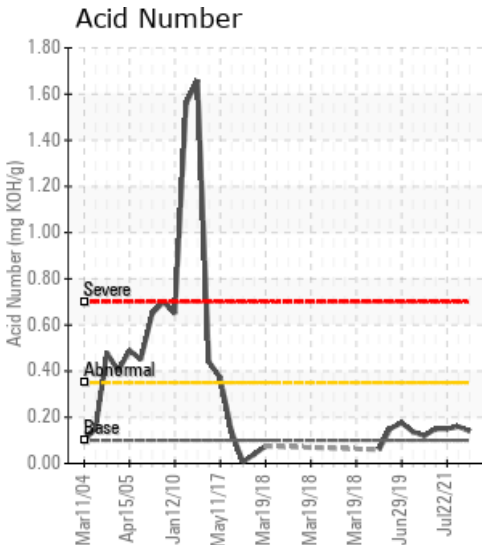
## POWDER SLUSH HOT OIL

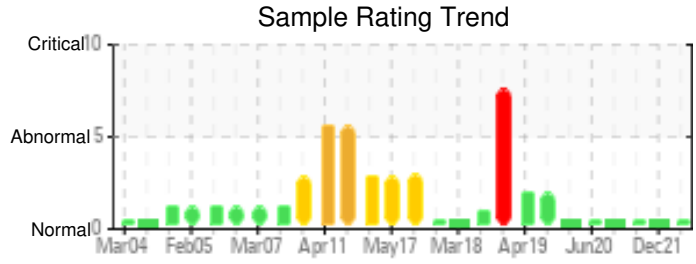
Customer: PTRHTF30023	System Information	Sample Information
INOAC INTERIOR SYSTEMS 575 JAMES STREET SOUTH ST MARYS, ON N4X 1B9 Canada Attn: Brent Dietrich Tel: (519)808-0372 E-Mail: bdietrich@inoacusa.com	System Volume: 14000 ltr Bulk Operating Temp: 500F / 260C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO LT Make: BP&R CONSTRUCTION	Lab No: 02503841 Analyst: Yen Garcia Sample Date: 08/02/22 Received Date: 08/08/22 Completed: 08/29/22 Yen Garcia yen.garcia@HFSinclair.com

Recommendation: No action needed at this time.

Comments:

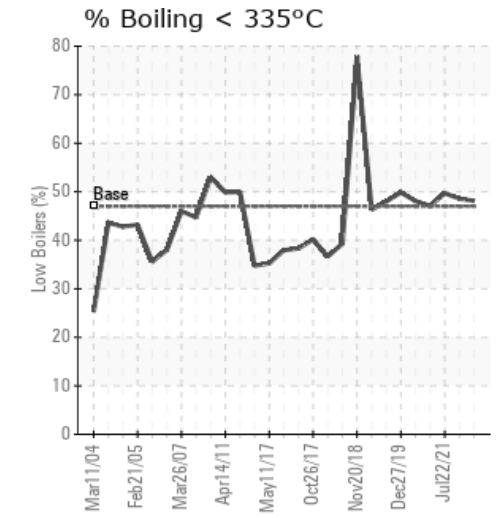
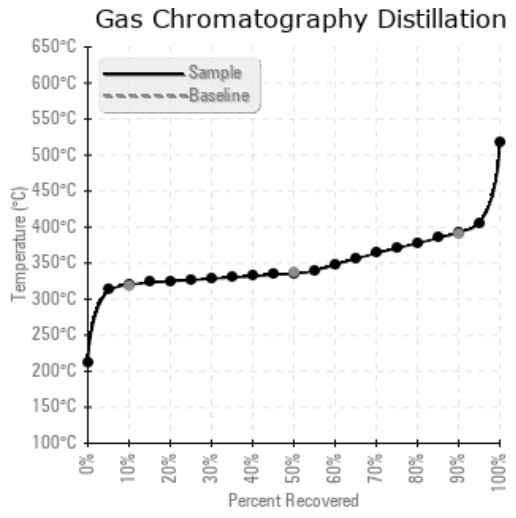
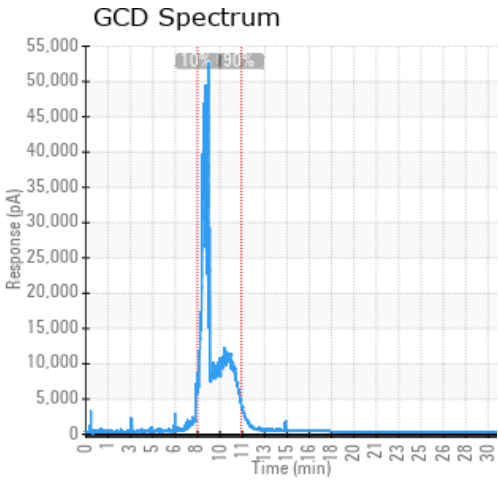
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
08/02/22	08/08/22	0.0h		345 / 174	26.1	7.1	0.14	0.318	607 / 320	636 / 335	739 / 393	48.11
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
11/26/20	12/03/20	0.0h		324 / 162	18.4	7.2	0.15	0.052	608 / 320	637 / 336	737 / 392	47.03
06/29/20	06/30/20	0.0h	POWDER SLUSH	334 / 168	16.8	7.1	0.12	0.171	608 / 320	636 / 336	737 / 392	48.09
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
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
11/26/20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	0
06/29/20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85	0
<b>Baseline Data</b>			0	0						0			0	0				0	0				270	

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



Historical Comments	
12/24/21	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).
11/26/20	Current sample is consistent with used Calflo LT. Flash point slightly low, but GCD data does not indicate any increase in low boilers. Fluid is suitable for continued use, sample at next interval.
06/29/20	Current analysis of the Hot Oil system indicates the oil is suitable for continued use. Acid number and viscosity are fine, with very little water in the system. GCD profile is consistent with Calflo LT. No wear metals present. Pentane insoluble have shown a slight increase. Please ensure that the sample line is flushed thoroughly to remove any insoluble that may have accumulated before the sample is taken. Resample at next interval.

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