

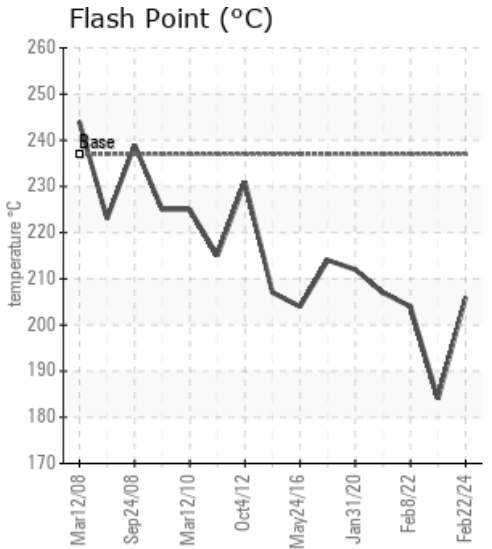
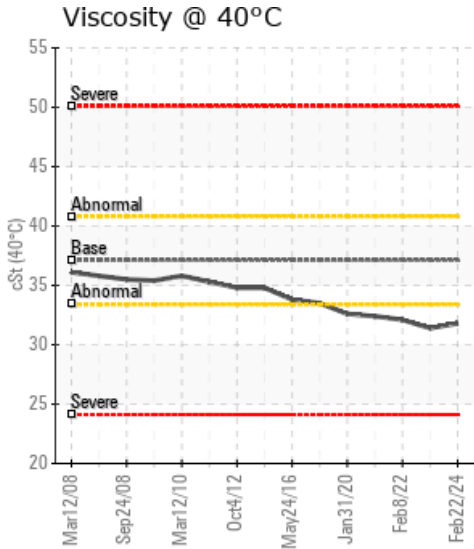
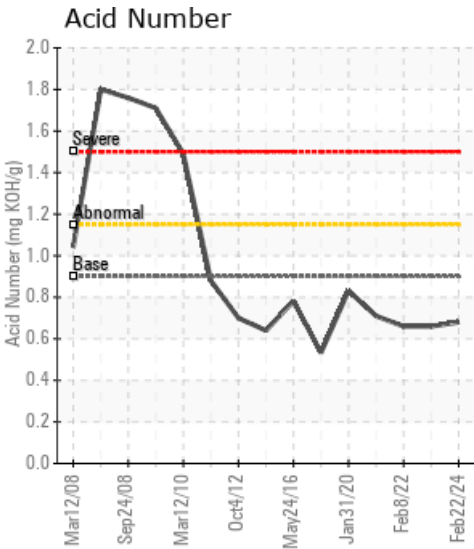
WANSON

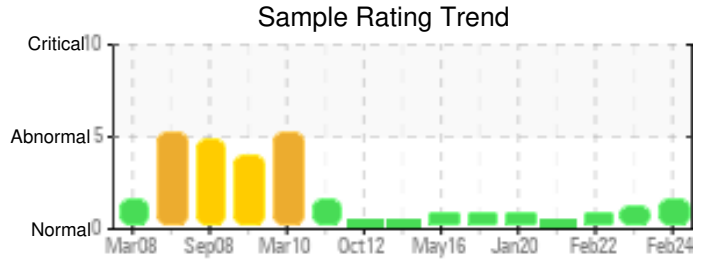
Customer: PTRHTF40021	System Information	Sample Information
MARINE HARVEST STERK BV VUURTORENWEG 13 FRIESLAND LEMMER, FRI NL Attn: Maintenance Manager Tel: E-Mail:	System Volume: 3000 ltr Bulk Operating Temp: 275F / 135C Heating Source: Blanket: Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID Make: WANSON	Lab No: 02618539 Analyst: Bill Quesnel CLS,OMA II,MLA-III,LLA-I Sample Date: 02/22/24 Received Date: 02/27/24 Completed: 03/05/24 Bill Quesnel CLS,OMA II,MLA-III,LLA-I

Recommendation: The fluid is suitable for further service. Resample at the next service interval to monitor.

Comments: (GCD) 90% Distillation Point is marginally high. COC Flash Point is marginally low.

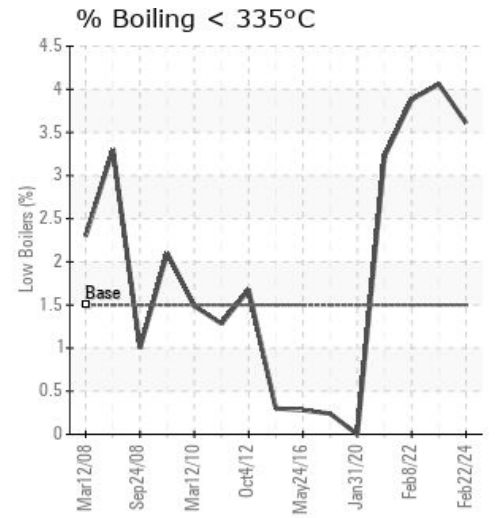
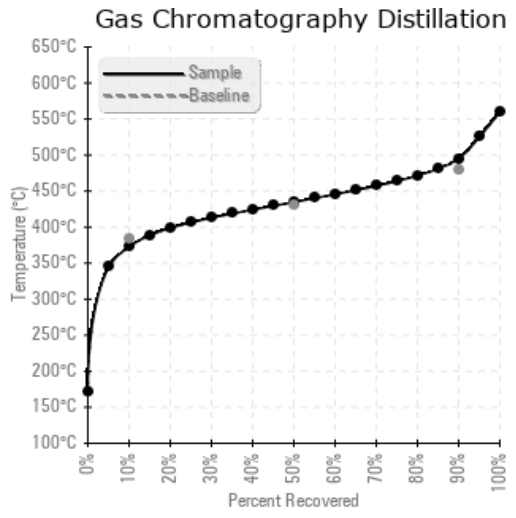
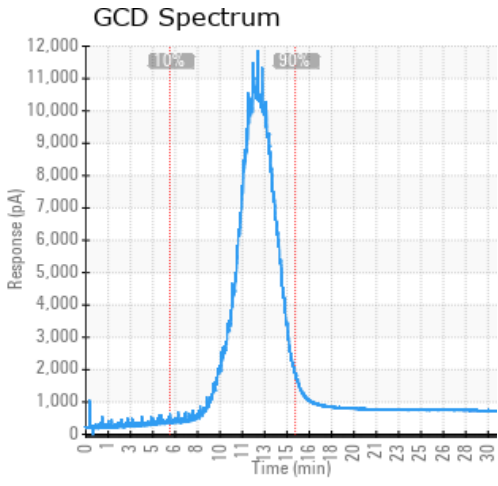
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
02/22/24	02/27/24	16.0y		403 / 206	30	31.8	0.68	0.197	703 / 373	814 / 435	923 / 495	3.61
02/09/23	02/16/23	15.0y		363 / 184	30.0	31.4	0.66	0.167	701 / 372	812 / 434	903 / 484	4.06
02/08/22	02/14/22	14.0y		399 / 204	20.1	32.1	0.66	0.110	701 / 372	812 / 434	902 / 484	3.88
02/11/21	02/22/21	13.0y		405 / 207	10.3	32.4	0.71	0.226	706 / 375	813 / 434	902 / 483	3.22
01/31/20	02/11/20	12.0y		414 / 212	22.6	32.6	0.831	0.075	749 / 398	824 / 440	907 / 486	0.00
Baseline Data				459 / 237		37.12	0.90		721 / 383	807 / 431	892 / 478	1.5





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
02/22/24	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	1
02/09/23	85	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	41	2
02/08/22	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
02/11/21	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
01/31/20	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0
Baseline Data			0	0						0			0	0				0	0				230	

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



Historical Comments	
02/09/23	We recommend that you vent the expansion tank to remove low boilers which assists in restoring the flash point of the fluid. Otherwise, oil appears in good condition and fit for further use. Please re-sample at normal frequency COC Flash Point is abnormally low.
02/08/22	Oil appears in good condition and fit for further use. Please re-sample at normal frequency COC Flash Point is marginally low.
02/11/21	Oil appears in good condition and fit for further use. Please re-sample at normal frequency
01/31/20	Fluid tests to specification. Fit for further use, please re-sample at normal frequency (GCD) % < 335°C measurement of 0.00% too low, but Flash Point indicates system to be in good conditions.

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