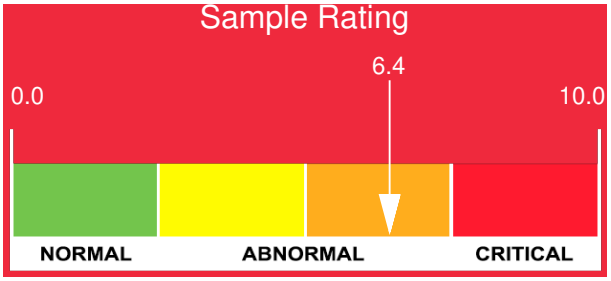
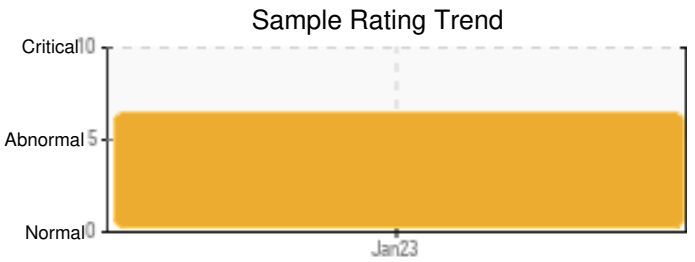




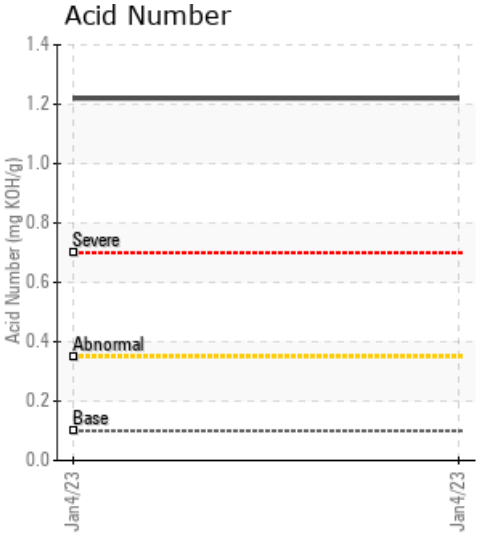
MOKON OH0001

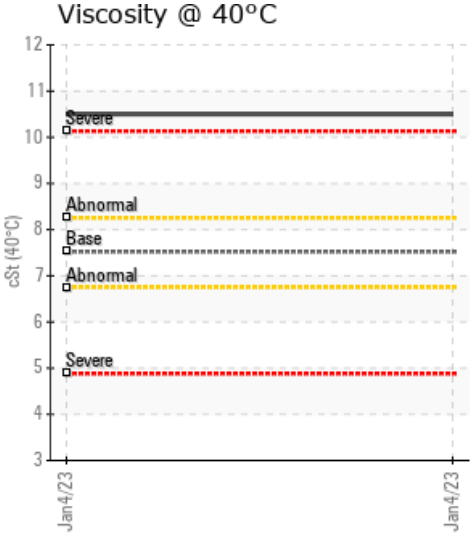
Customer:	System Information	Sample Information
PYROWAVE CP 174, SUCC. TOUR D/L BOURSE MONTREAL, QC H4Z 1C8 Canada Attn: Laugane Patry Tel: E-Mail: lpatry@pyrowave.com	System Volume: 175 ltr Bulk Operating Temp: 347F / 175C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO LT Make:	Lab No: 02532926 Analyst: Bill Quesnel CLS,OMA II,MLA-III,LLA-I Sample Date: 01/04/23 Received Date: 01/12/23 Completed: 01/31/23 Bill Quesnel CLS,OMA II,MLA-III,LLA-I

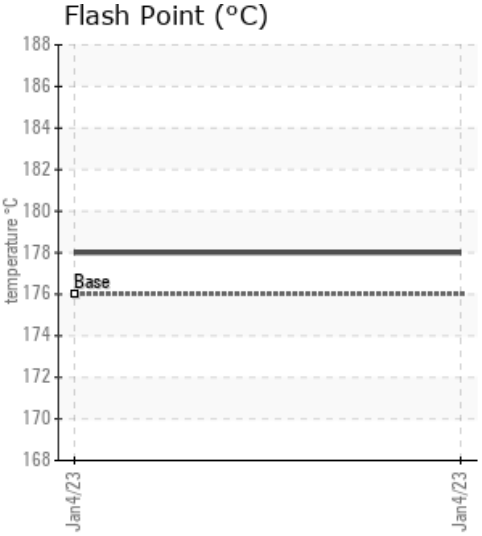
Recommendation: The oil is near the end of it`s useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition. Diagnostician's Note: The high acid number, and GCD @ 90% indicates a high level of oxidation of the fluid. The high viscosity supports this and also causes lower heat transfer efficiency in the system. Changing the fluid will improve heat transfer efficiency and lower operating costs.

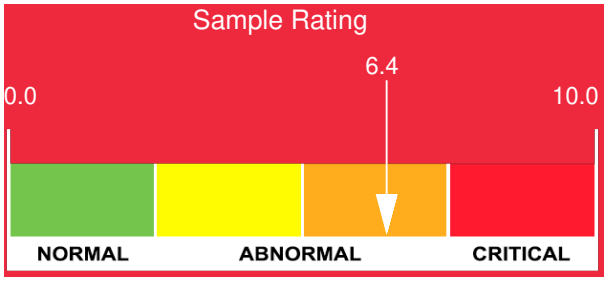
Comments: There is no indication of any contamination in the fluid. Acid Number (AN) is severely high. (GCD) 90% Distillation Point is severely high. Visc @ 40°C is abnormally high. (GCD) 50% Distillation Point is marginally high. The fluid viscosity is higher than normal.

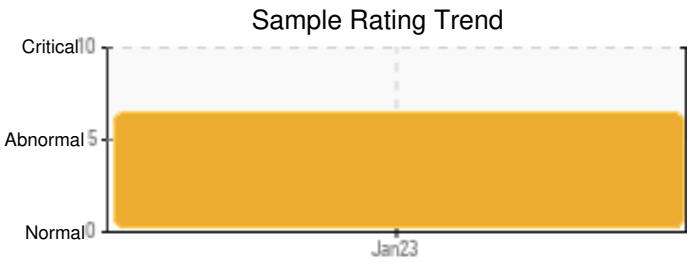
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
01/04/23	01/12/23	0.0m		352 / 178	0.00	10.5	1.22	0.051	614 / 323	680 / 360	784 / 418	30.02
Baseline Data				349 / 176		7.52	0.1		604 / 318	640 / 338	734 / 390	47.0





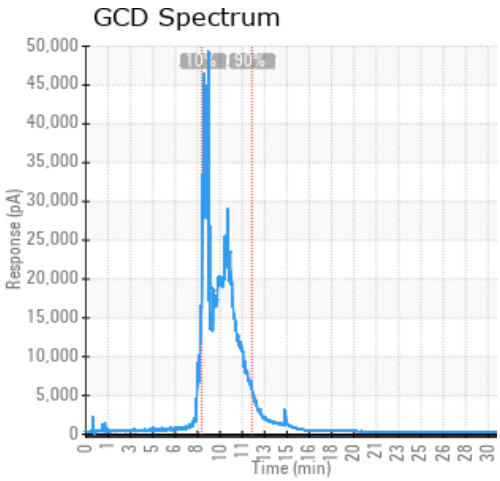


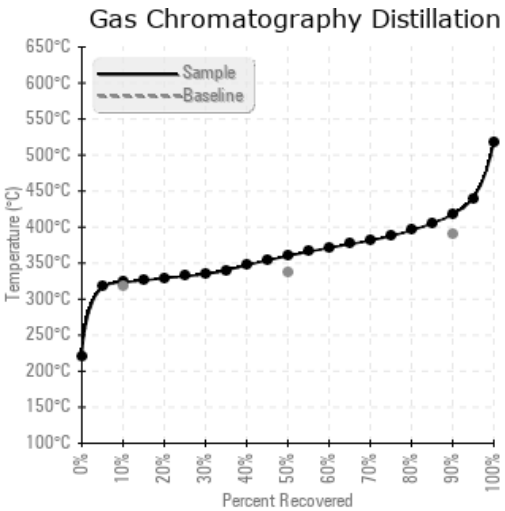


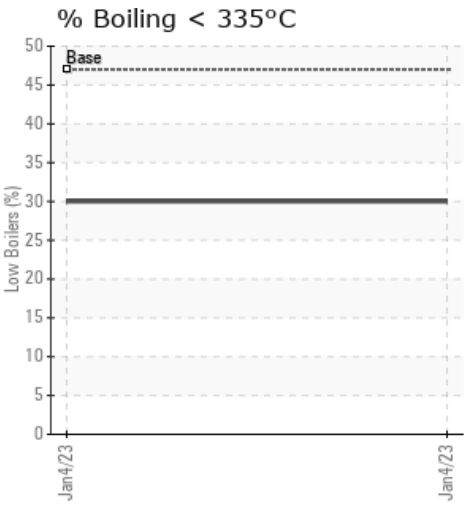


Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
01/04/23	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	181	0
Baseline Data			0	0						0			0	0				0	0				270	

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







Historical Comments
