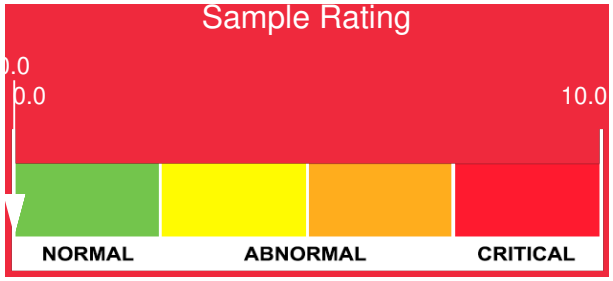
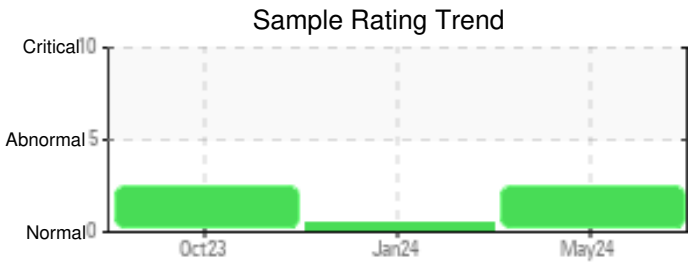




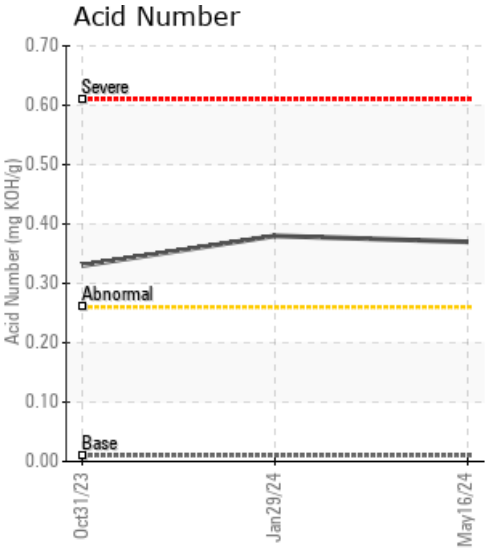
HEATER

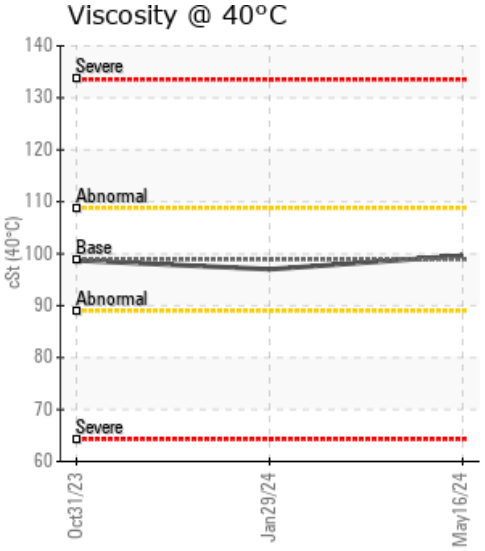
Customer:	System Information	Sample Information
ERGON - NASHVILLE 1114 VISCO DRIVE NASHVILLE, TN 37210 US Attn: JASON MOORE Tel: E-Mail: Jason.Moore@ergon.com	System Volume: 0 gal Bulk Operating Temp: Not Specified Heating Source: Blanket: Fluid: ERGON HYGOLD L500 Make:	Lab No: 06183830 Analyst: Doug Bogart Sample Date: 05/16/24 Received Date: 05/17/24 Completed: 05/31/24 Doug Bogart dougb@wearcheckusa.com

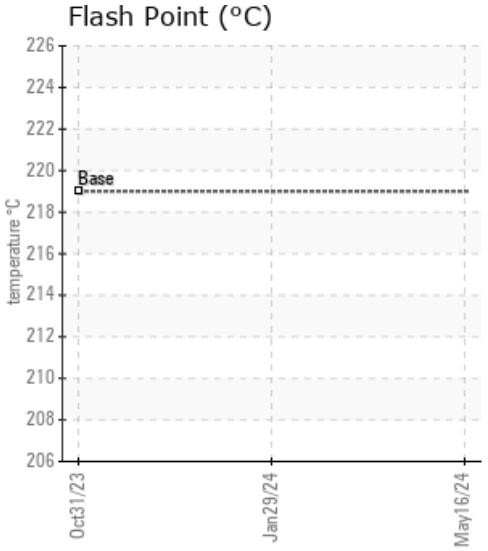
Recommendation: We recommend that you vent the expansion tank to remove low boilers which assists in restoring the flash point of the fluid. The low initial boiling point along with the low boilers present in the simulated distillation chromatogram indicate contamination with a volatile substance. Please review fluid safety requirements (i.e. flash point) regarding fluid operating temperatures. All tests and evaluation performed at WearCheck Canada. Corrected copy for oil type.

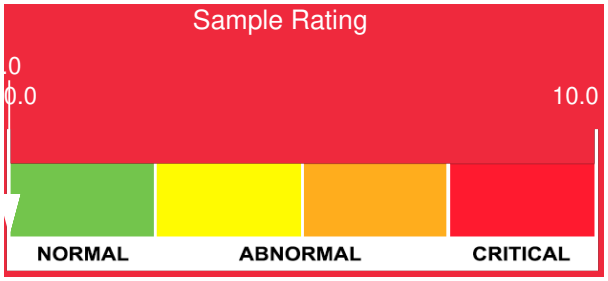
Comments: Pentane Insolubles levels are severely high. Acid Number (AN) is abnormally high. (GCD) Initial Boiling Point is abnormal.

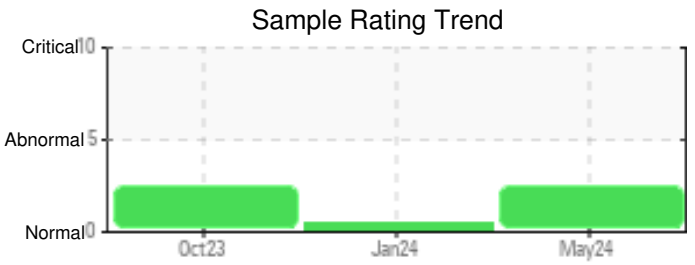
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
05/16/24	05/17/24	0.0h		421 / 216	38	99.6	0.37	1.16	680 / 360	812 / 433	914 / 490	5.47
01/29/24	01/30/24	0.0h			99	97.0	0.38					
10/31/23	11/06/23	0.0h			450	98.7	0.33					
Baseline Data				426 / 219		98.9	0.01		693 / 367	813 / 434	937 / 503	2.0







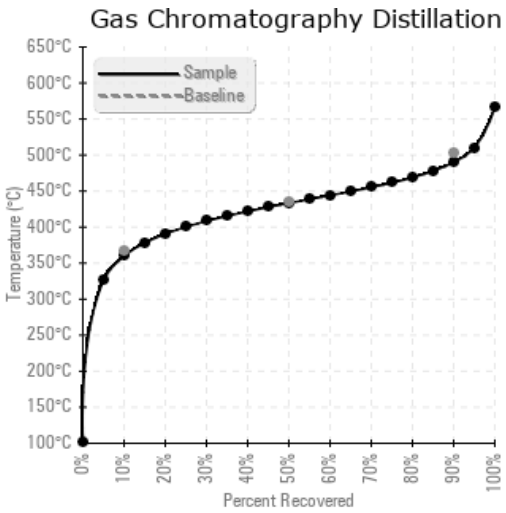


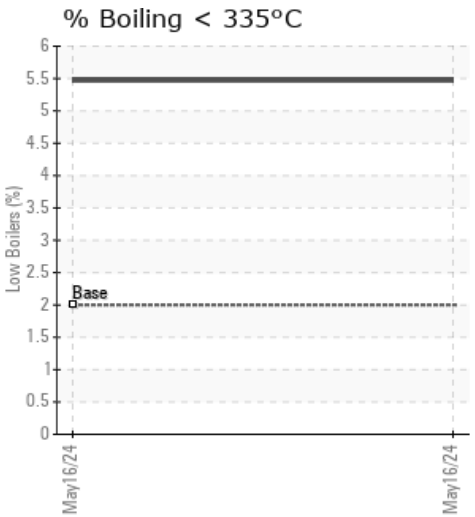


Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
05/16/24	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01/29/24	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0		0	0	0	0	0	0
10/31/23	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0		0	0	0	0	0	0
Baseline Data			0	0						0			0	0				0	0				0	

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

GCD Spectrum





Historical Comments

01/29/24	Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the fluid. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.
10/31/23	We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. There is a high amount of visible silt present in the sample. There is a trace of moisture present in the fluid. The AN level is acceptable for this fluid.

