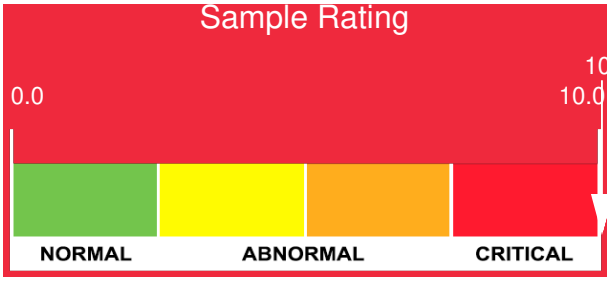
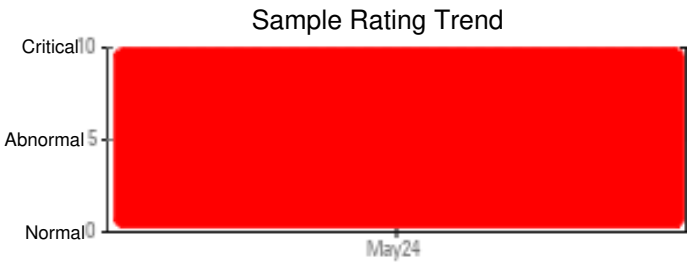




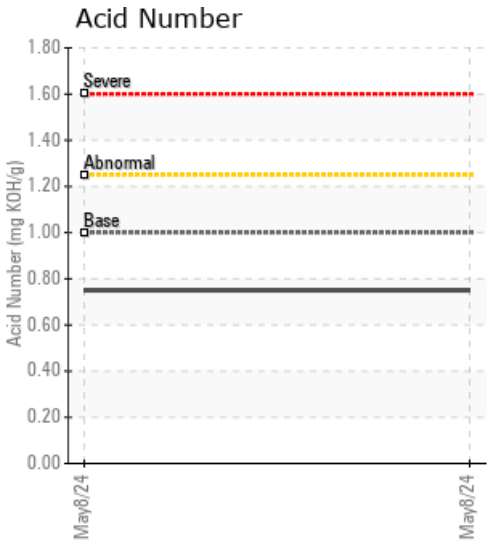
DV PTC-UNIT #3

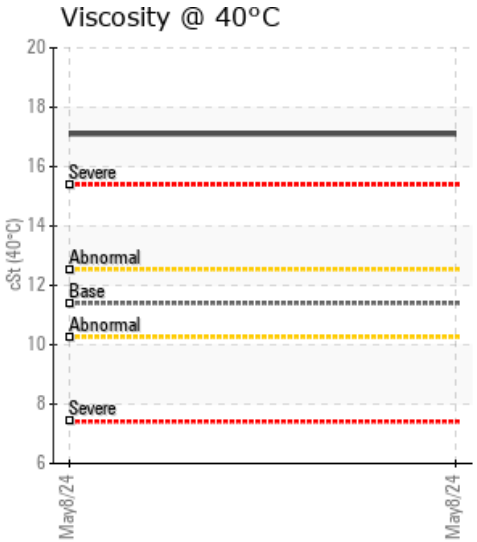
Customer:	System Information	Sample Information
Multimatic Engineering Services 85 Valleywood Drive Markham, ON L3R 5E5 CA Attn: Greg Wallace Tel: (905)470-0025 E-Mail: gwallace@multimatic.com	System Volume: 0 gal Bulk Operating Temp: Not Specified Heating Source: Blanket: Fluid: FUCHS TITAN SAF 1579 EU 175 Make:	Lab No: 02634370 Analyst: Bill Quesnel CLS,OMA II,MLA-III,LLA-I Sample Date: 05/08/24 Received Date: 05/09/24 Completed: 05/14/24 Bill Quesnel CLS,OMA II,MLA-III,LLA-I

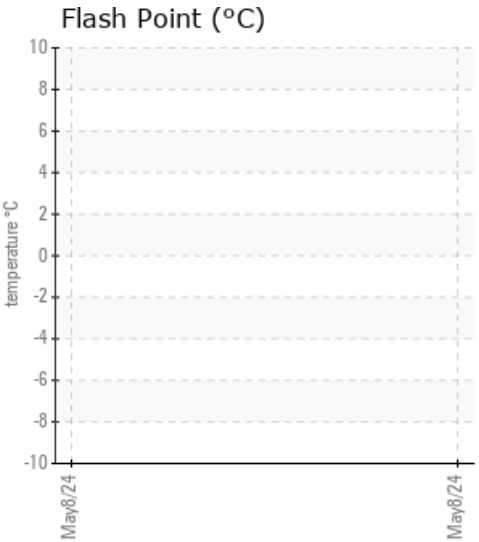
Recommendation: We advise that you check all areas where dirt can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

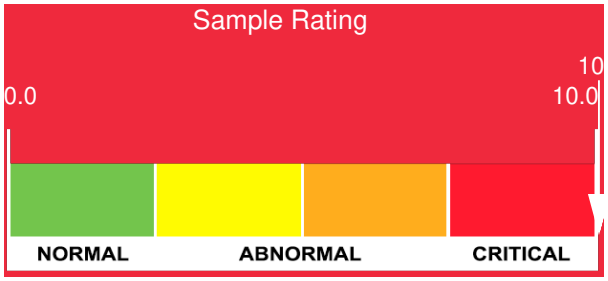
Comments: Iron ppm levels are severe. PQ levels are severe. The very high ferrous density (PQ) index indicates that severe wear is occurring. There is a moderate concentration of dirt present in the fluid. The water content is negligible. High amount of ingressed dirt has caused abrasive wear to the component. Viscosity of sample indicates oil is within ISO 15 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The AN level is acceptable for this fluid. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

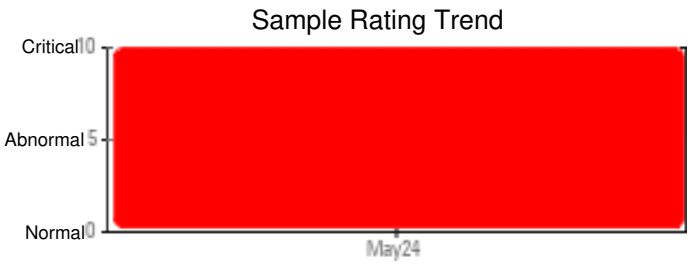
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
05/08/24	05/09/24	0.0h			131	17.1	0.75	1.88	527 / 275	665 / 352	752 / 400	40.02
Baseline Data				331 / 166		11.4	1.0		529 / 276	664 / 351	761 / 405	42





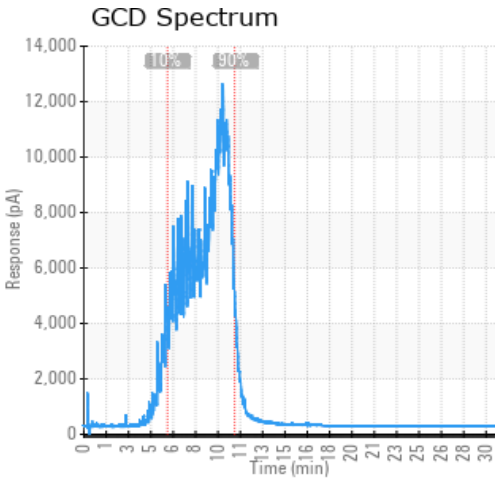


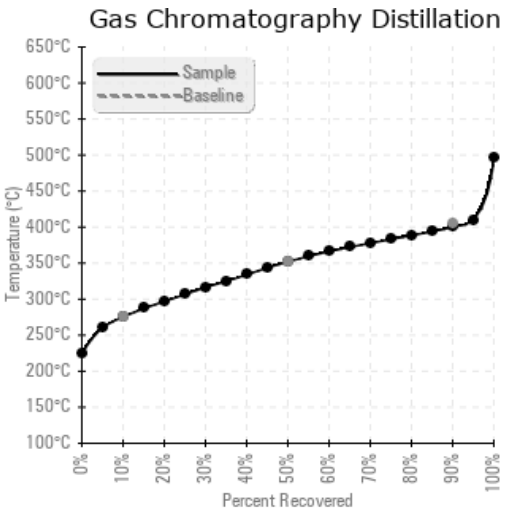


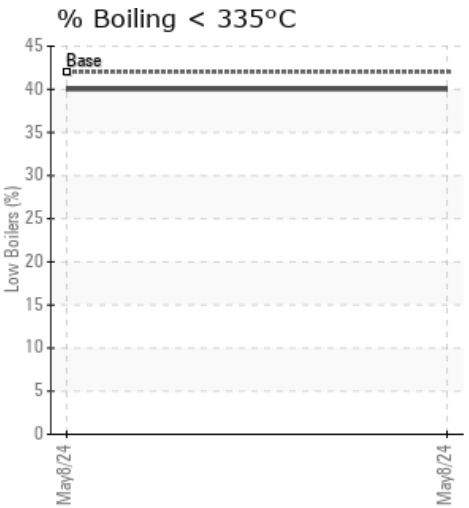


Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
05/08/24	2573	14	19	6	4	0	0	0	0	0	183	2	0	0	3	0	3	2	4	5	4	0	320	308
Baseline Data			0	0						0			0	0				0	0				0	

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







Historical Comments

