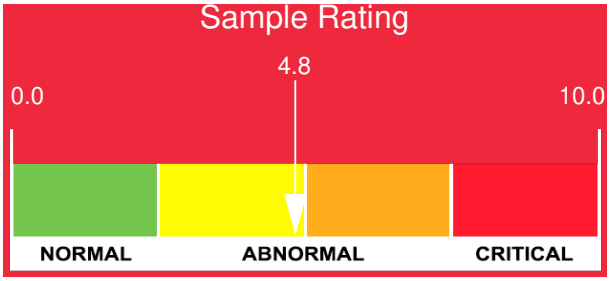
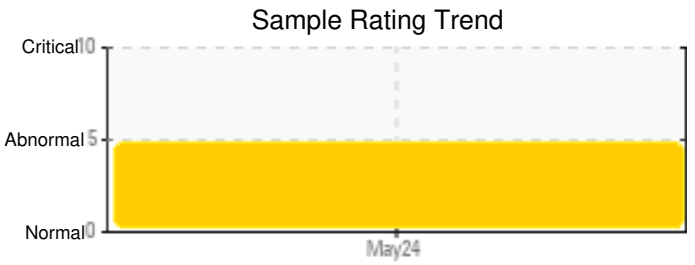


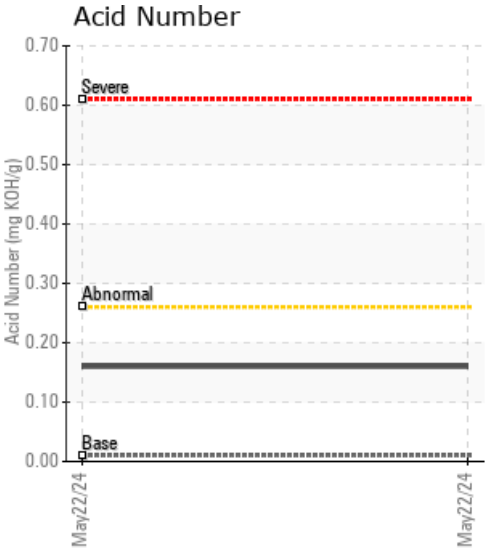

# 06184898

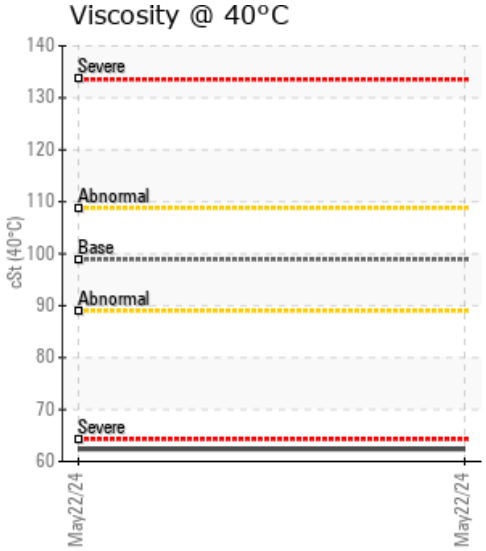
| Customer: | System Information | Sample Information |
|---|---|---|
| WEARCHECK USA<br>501 Madison Ave<br>Cary, NC 27513 US<br>Attn: CATHERINE ANASTASIO<br>Tel:<br>E-Mail:<br>CANASTASIO@WEARCHECKUSA.CO | System Volume: 0 gal<br>Bulk Operating Temp: Not Specified<br>Heating Source:<br>Blanket:<br>Fluid: ERGON HYGOLD L500<br>Make: | Lab No: 02637317<br>Analyst: Bill Quesnel CLS,OMA II,MLA-III,LLA-I<br>Sample Date: 05/22/24<br>Received Date: 05/23/24<br>Completed: 05/29/24<br>Bill Quesnel CLS,OMA II,MLA-III,LLA-I |

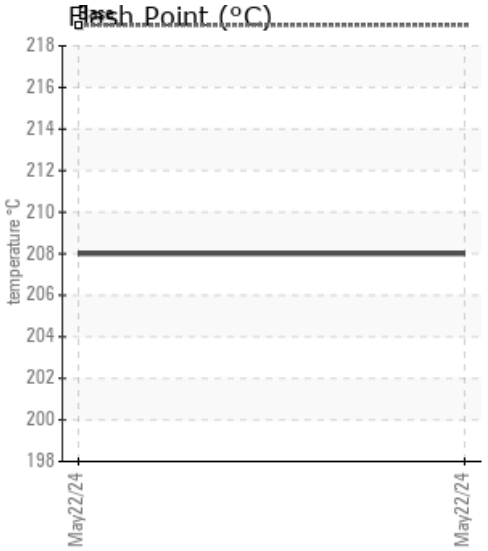
Recommendation: We recommend that you vent the expansion tank to remove low boilers which assists in restoring the flash point of the fluid. The low initial boiling point and viscosity, along with the low boilers present in the simulated distillation chromatogram indicate contamination with a volatile substance. Please review fluid safety requirements (i.e. flash point) regarding fluid operating temperatures.

Comments: Iron ppm levels are abnormal. Pentane Insolubles levels are severely high. Sodium ppm levels are abnormally high. (GCD) Initial Boiling Point is abnormal. Visc @ 40°C is abnormally low.

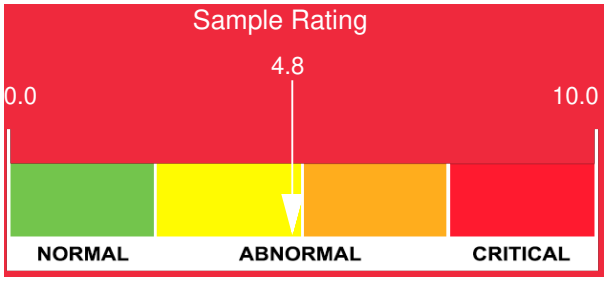
| Sample Date | Received Date | Fluid Age | Sample Location | Flash Point (COC) | Water (KF) | Viscosity (40°C) | Acid Number | Solids | GCD 10% | GCD 50% | GCD 90% | GCD % < 335°C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm/dd/yy | | | °F/°C | ppm | cSt | mg/KOH/g | %wt | °F/°C | °F/°C | °F/°C | % |
| 05/22/24 | 05/23/24 | 0.0h | | 406 / 208 | 71 | 62.4 | 0.16 | 1.72 | 672 / 356 | 789 / 421 | 903 / 484 | 5.35 |
| Baseline Data | | | | 426 / 219 | | 98.9 | 0.01 | | 693 / 367 | 813 / 434 | 937 / 503 | 2.0 |

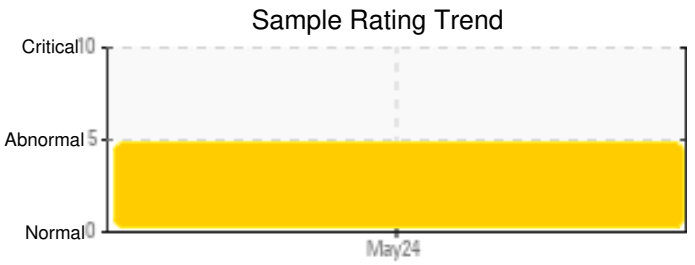


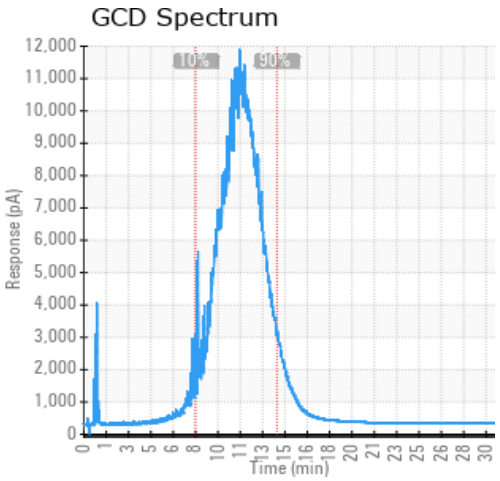

 

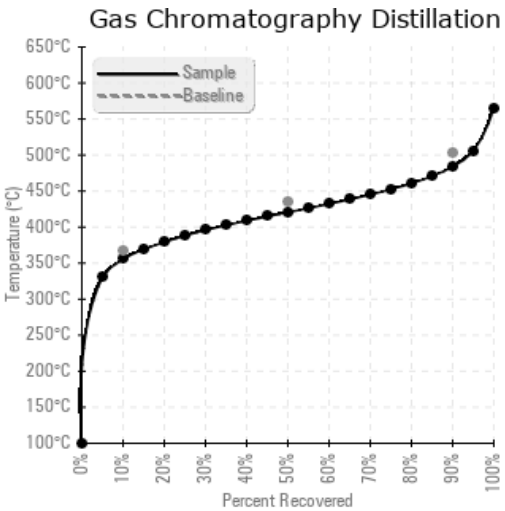


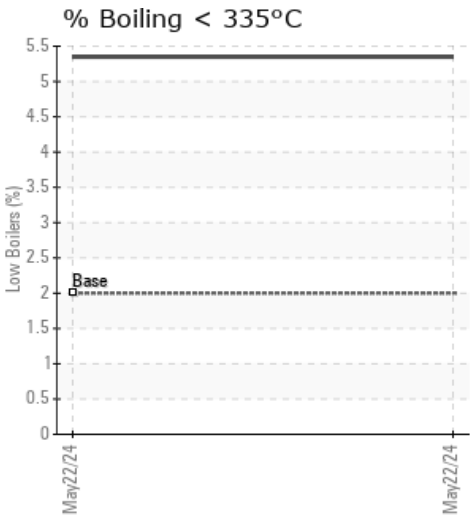




| Sample Date | Iron | Chromium | Nickel | Aluminum | Copper | Lead | Tin | Cadmium | Silver | Vanadium | Silicon | Sodium | Potassium | Titanium | Molybdenum | Antimony | Manganese | Lithium | Boron | Magnesium | Calcium | Barium | Phosphorus | Zinc |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05/22/24 | 228 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 5 | 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%]




## Historical Comments