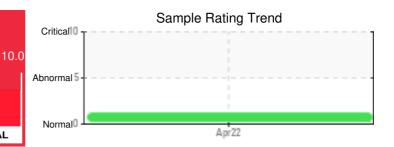


NORMAL



THERMOL PLUS

Customer:

TULCO OILS INC CORPORATE

5240 EAST PINE TULSA, OK 74115 USA

Attn: RICK MCCLEER Tel: (800)375-2347

E-Mail: rickmccleer@tulco.com

System Information

System Volume: 0 gal

Bulk Operating Temp: Not Specified

CRITICAL

Heating Source:

Blanket:

ABNORMAL

Fluid: THERMOL PLUS HEAT TRANSFER OIL 68

Make:

Sample Information

Lab No: 05521177

Analyst: Bill Quesnel CLS, OMA II, MLA-

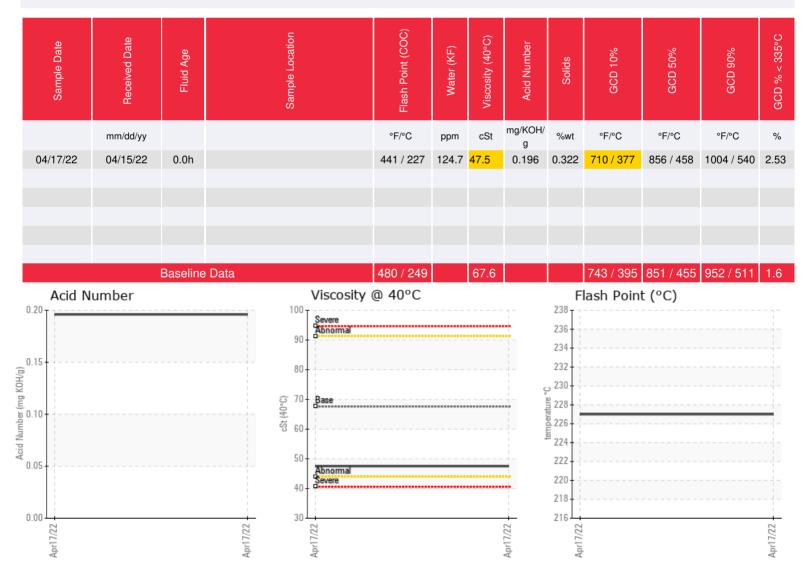
III,LLA-I

Sample Date: 04/17/22 Received Date: 04/15/22 Completed: 05/02/22

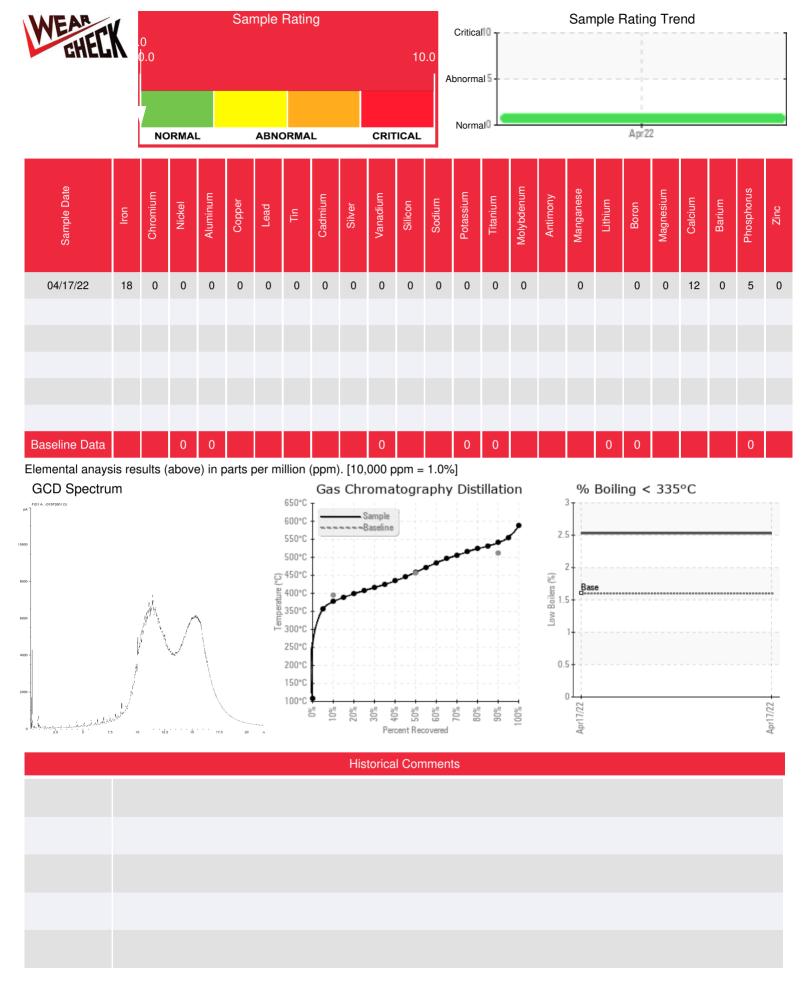
Bill Quesnel CLS, OMA II, MLA-III, LLA-I

Recommendation: Resample at the next service interval to monitor. Diagnostician's Note: The thermal fluid appears to be a mix of two different viscosity fluids (ISO 32 and 68 likely). As a result the viscosity is much lower than expected. The flash point of the fluid is acceptable at 227°C, so unless there is an issue with your system regarding safety at the temperature, the fluid is good for continued use. In fact, the lower viscosity will provide more efficient heat transfer if anything. There is a small amount of volatile light ends, you could attempt to remove by venting the expansion tank.

Comments: All component wear rates are normal. This appears to be a mixture of two thermal fluid products (an ISO 32 and an ISO 68). No other contaminants were detected in the fluid. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.



Report ID: [05521177] (Generated: 05/02/2022 14:55:10) - Page 1 - Copyright 2022 Wearcheck Inc. All Rights Reserved.



WearCheck Canada makes no representation or warranty of any kind, either express or implied, as to the accuracy or completeness of the analysis and assumes no responsibility and shall have no liability whatsoever with respect to such analysis, or a party's use of it.