

## H-101

**Customer:** 

ALTAGAS LTD 10001 29th Ave North West EDMONTON, BC T6N 1A5 CA

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System Information

System Volume: 0 ltr

Bulk Operating Temp: 250F / 121C

Heating Source:

Blanket:

Fluid: EASTMAN THERMINOL 59

Make:

Sample Information

Lab No: 02548232

Analyst: Bill Quesnel CLS, OMA II, MLA-

III,LLA-I

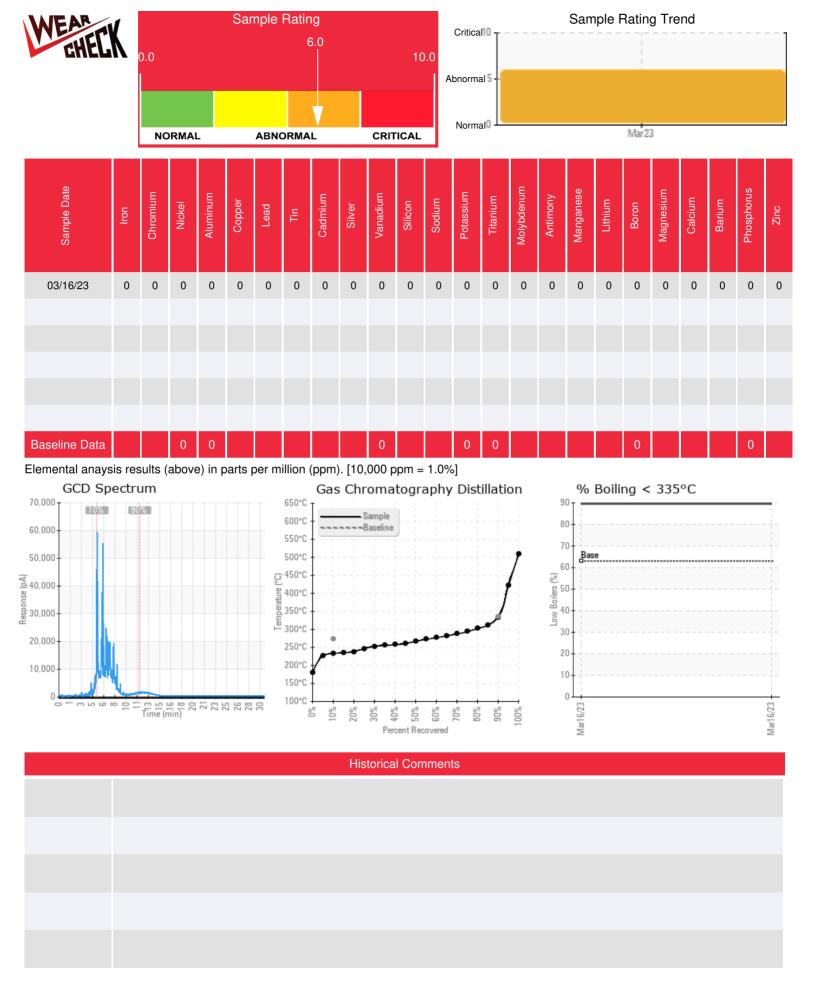
Sample Date: 03/16/23 Received Date: 03/28/23 Completed: 05/31/23

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

Recommendation: The closest match to this product in our extensive heat transfer fluid database (>200 products) is Monsanto Therminol 59. The product appears to have been topped up with 10% of a more standard heat transfer fluid (such as Petro-Canada Petrotherm). The viscosity has dropped from 4.0 cSt to 2.8 cSt which indicates thermal cracking of the fluid. The cracked products have lowered the flash point from 146°C to 124°C and your system is running at 121°C, so caution is advised as this fluid may be a fire hazard. Topping up with a higher viscosity product will not remedy the flash point, and there are likely not light enough ends present that venting the expansion tank would have any beneficial effect. You have not stated the capacity of the system, so I cannot account for financial considerations, but likely it would be in your best interest to replace the system fluid with new unused Monsanto Therminol 59.

Comments: (GCD) % < 335°C is severely high. (GCD) 10% Distillation Point is abnormally low. Visc @ 40°C is abnormally low. The COC Flash Point is abnormally low. Auto-ignition Temperature: 405°C (5 sec ignition delay @ 745 mm/Hg).





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