

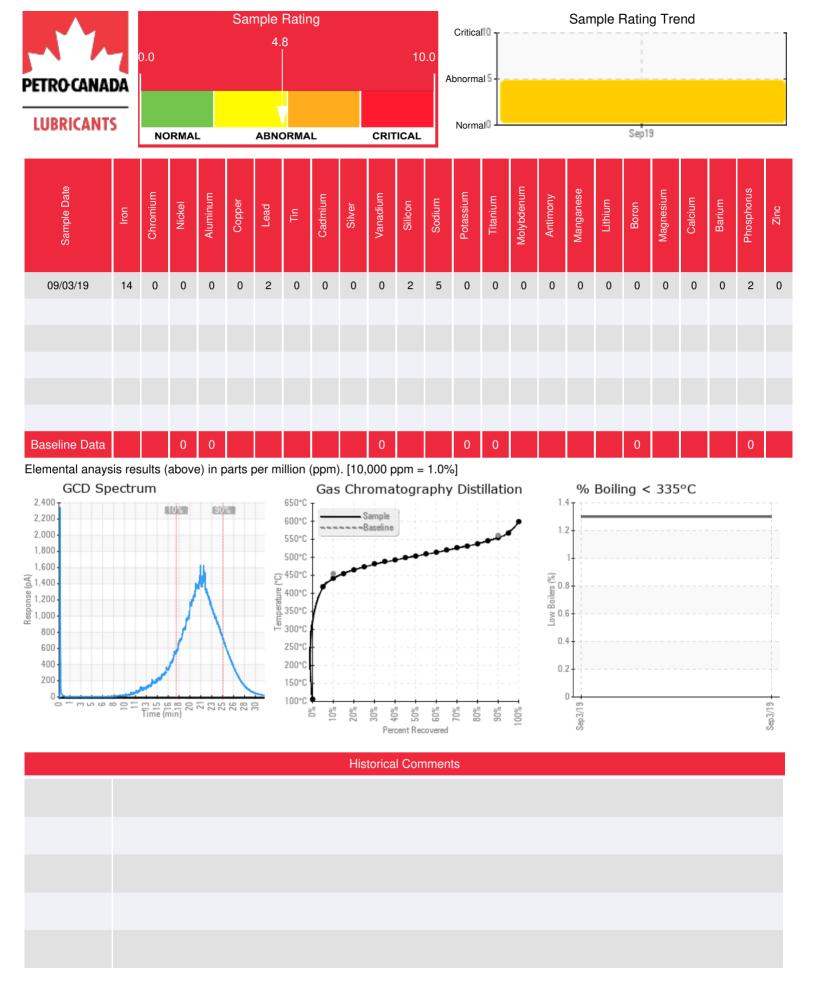
PU114-0046 HEAT EXCHANGER

| Customer: PTRHTF30141 | System Information | Sample Information |
|------------------------------|----------------------------------|-------------------------|
| McAsphalt Industries Ltd | System Volume: 0 gal | Lab No: 02306537 |
| 70 Couchie Industrial Rd | Bulk Operating Temp: 235F / 113C | Analyst: Behshad Sabah |
| North Bay, ON P1B 8G5 Canada | Heating Source: | Sample Date: 09/03/19 |
| Attn: Roman Andrle | Blanket: | Received Date: 09/05/19 |
| Tel: | Fluid: ESSO ESSOTHERM N100 | Completed: 09/06/19 |
| E-Mail: | Make: HEATEC | |

Recommendation: slightly high TAN, Pentane insoluble and viscosity are the signs of low oil-oxidation. there is not a high PPM of iron which means there is not a corrosion in the system yet. but you should monitor the oil very closely. please note the more TAN, the higher the corrosion in the system.

Comments: Pentane Insolubles levels are severely high. Acid Number (AN) is abnormally high.





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