



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id  
**FRICK PROPANE 1**  
Component  
**Refrigeration Compressor**  
Fluid  
**SUMMIT PGI 100 (--- GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TO90002300</b>	TO9012582	---
Sample Date		Client Info		<b>20 Mar 2023</b>	08 Mar 2022	---
Machine Age	hrs	Client Info		<b>0</b>	0	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	N/A	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>ABNORMAL</b>	ATTENTION	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>2</b>	0	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>10	<b>1</b>	<1	---
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>50	<b>0</b>	0	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

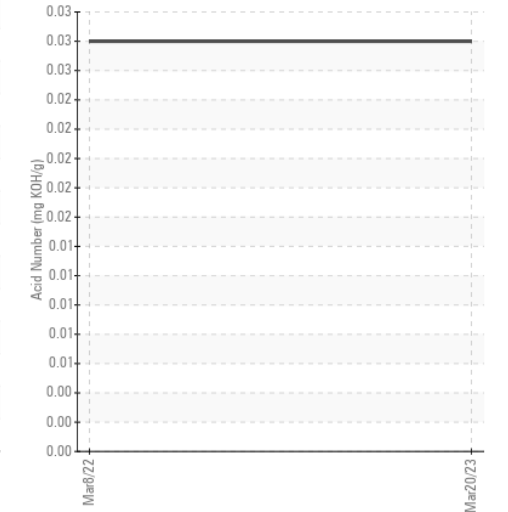
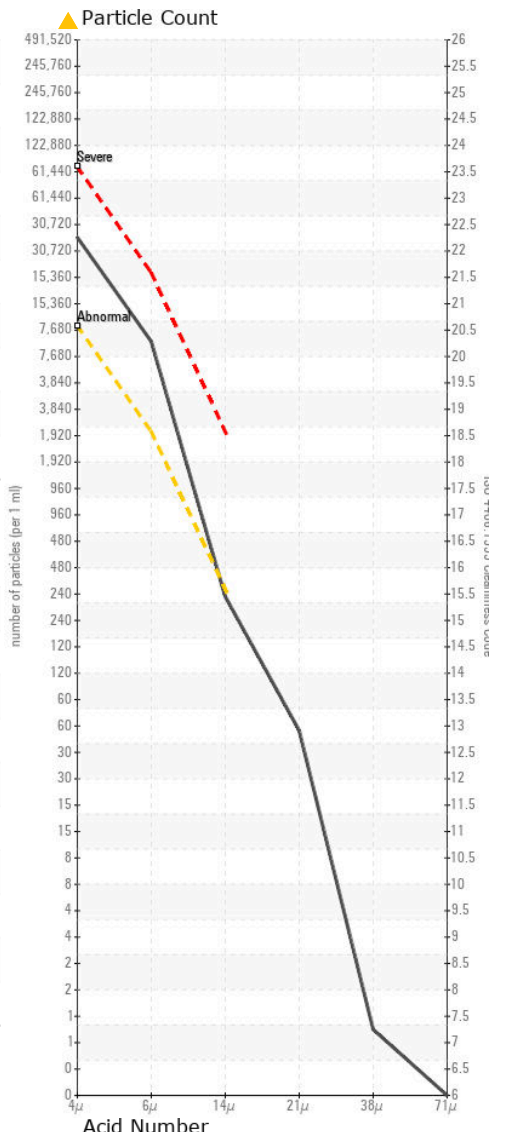
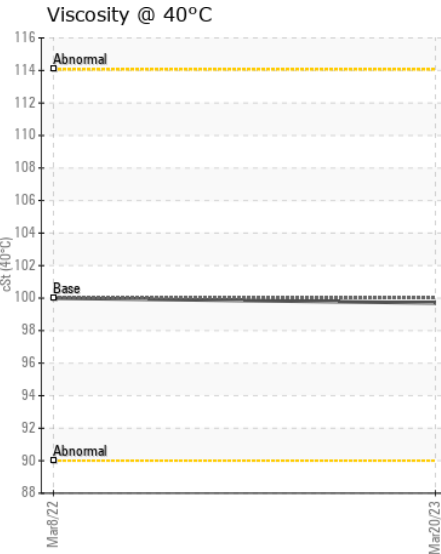
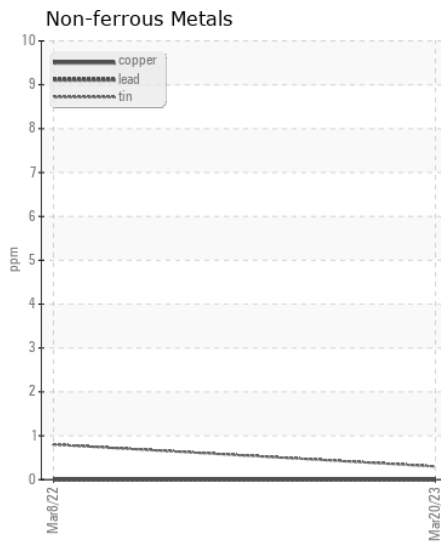
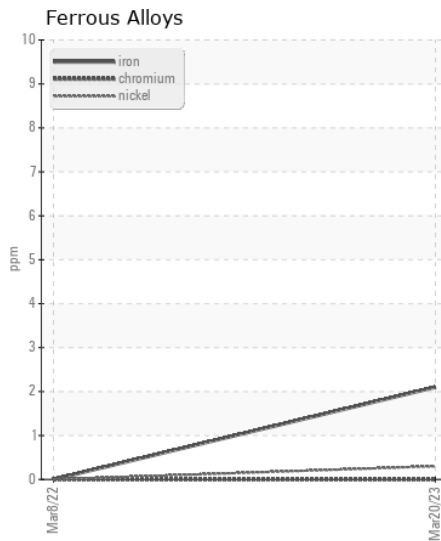
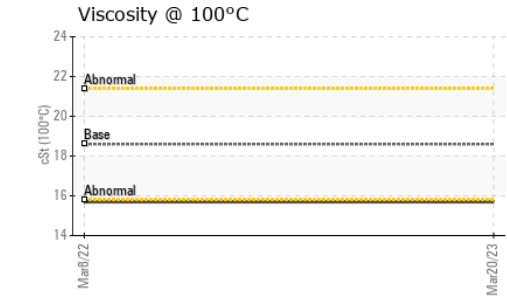
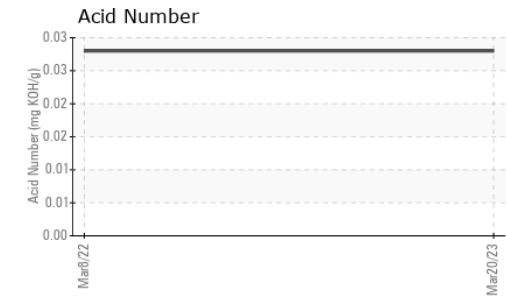
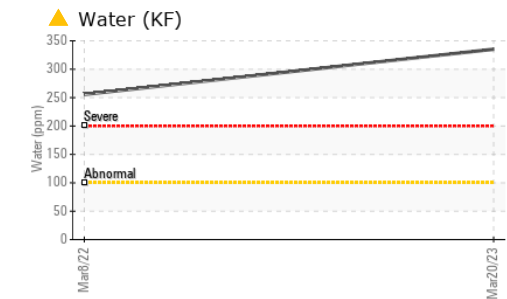
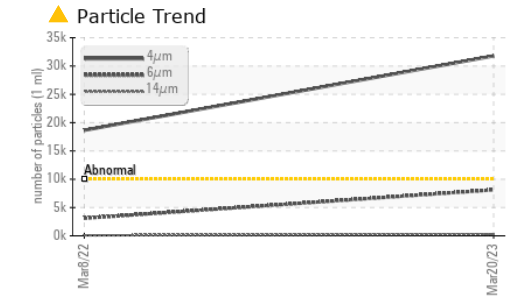
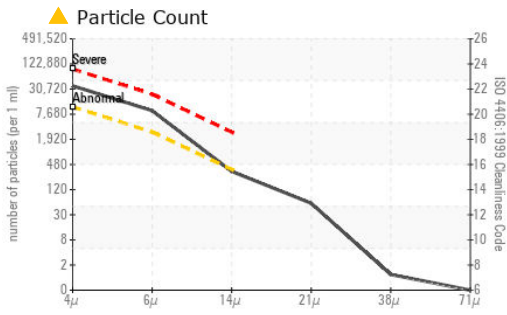
There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>15	<b>4</b>	6	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	---
Water	%	ASTM D6304	>0.01	<b>▲ 0.033</b>	▲ 0.025	---
ppm Water	ppm	ASTM D6304	>100	<b>▲ 335.2</b>	▲ 255.6	---
Particles >4µm		ASTM D7647	>10000	<b>▲ 31786</b>	● 18653	---
Particles >6µm		ASTM D7647	>2500	<b>▲ 8123</b>	● 3099	---
Particles >14µm		ASTM D7647	>320	<b>289</b>	78	---
Particles >21µm		ASTM D7647	>80	<b>50</b>	12	---
Particles >38µm		ASTM D7647	>20	<b>1</b>	1	---
Particles >71µm		ASTM D7647	>4	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>▲ 22/20/15</b>	● 21/19/13	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>VLITE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.01	<b>NEG</b>	NEG	---

**FLUID CONDITION**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	0	---
Boron	ppm	ASTM D5185m		<b>0</b>	2	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Manganese	ppm	ASTM D5185m		<b>0</b>	0	---
Magnesium	ppm	ASTM D5185m		<b>2</b>	0	---
Calcium	ppm	ASTM D5185m		<b>4</b>	1	---
Phosphorus	ppm	ASTM D5185m		<b>30</b>	33	---
Zinc	ppm	ASTM D5185m		<b>3</b>	0	---
Sulfur	ppm	ASTM D5185m		<b>5</b>	0	---
Acid Number (AN)	mg KOH/g	ASTM D974		<b>0.028</b>	0.028	---
Visc @ 40°C	cSt	ASTM D445	100	<b>99.7</b>	100	---
Visc @ 100°C	cSt	ASTM D445	18.6	<b>15.7</b>	15.7	---
Viscosity Index (VI)	Scale	ASTM D2270	185	<b>167</b>	167	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO90002300 **Received** : 21 Mar 2023  
**Lab Number** : 05797419 **Tested** : 22 Mar 2023  
**Unique Number** : 10387103 **Diagnosed** : 23 Mar 2023 - Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: KV100, PrtCount, VI )

**ENERGY TRANSFER - WAHA**  
 2821 WAHA RD  
 COYANOSA, TX  
 US 79730  
 Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:  
F: