



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
NATREL DON MILLS [4501246281]
Machine Id
FRICK FES C3 (S/N 10241E76369961)
Component
Screw Compressor
Fluid
FRICK COMPRESSOR OIL #3 (40 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0924781	WC0817823	---
Sample Date		Client Info		25 Apr 2024	06 Jun 2023	---
Machine Age	hrs	Client Info		23579	21039	---
Oil Age	hrs	Client Info		23579	0	---
Filter Age	hrs	Client Info		3000	0	---
Oil Changed		Client Info		Filtered	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				NORMAL	ATTENTION	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184*		0	0	---
Iron	ppm	ASTM D5185(m)	>60	20	23	---
Chromium	ppm	ASTM D5185(m)	>4	0	0	---
Nickel	ppm	ASTM D5185(m)		0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>5	0	<1	---
Lead	ppm	ASTM D5185(m)	>10	0	0	---
Copper	ppm	ASTM D5185(m)	>30	0	0	---
Tin	ppm	ASTM D5185(m)	>15	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

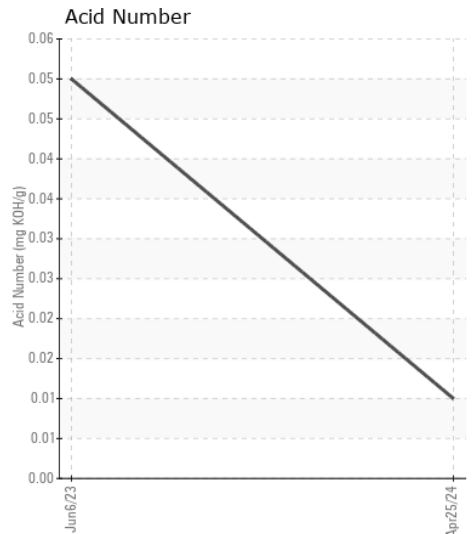
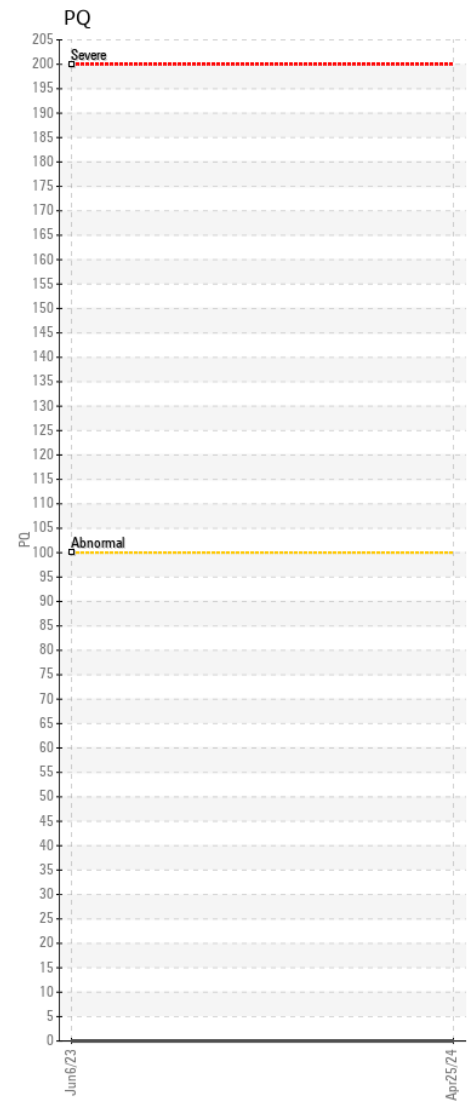
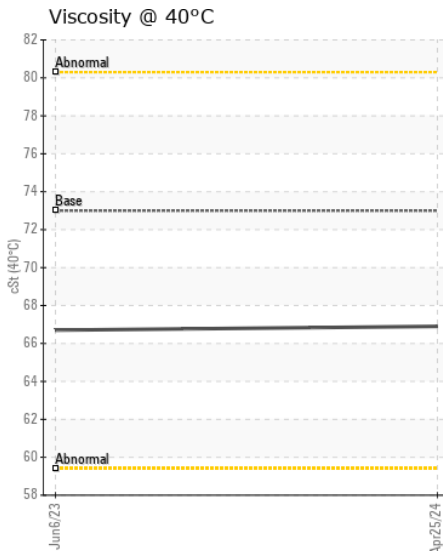
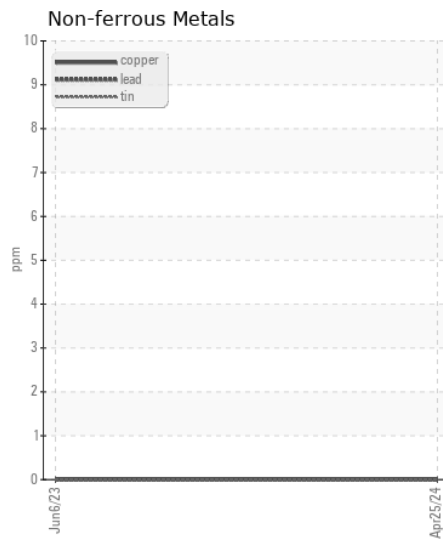
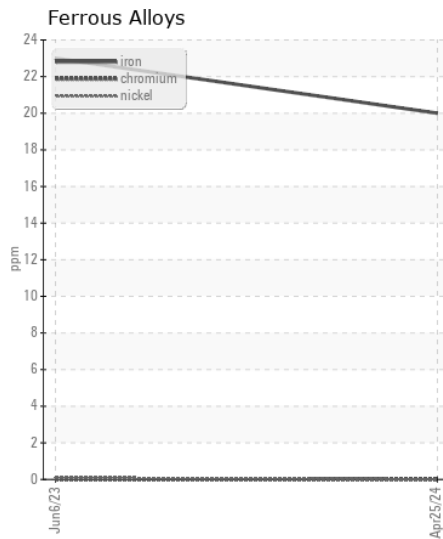
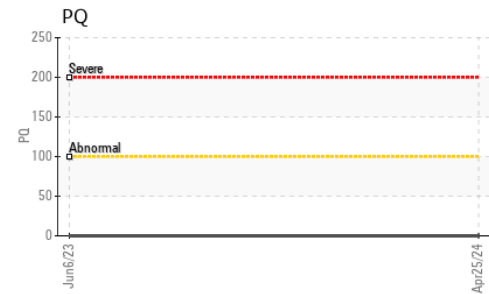
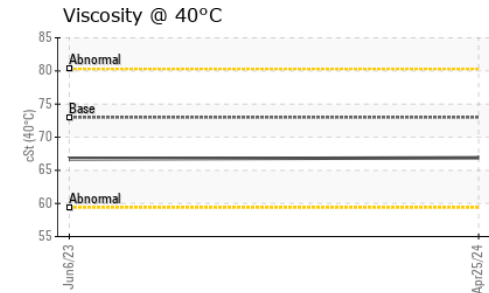
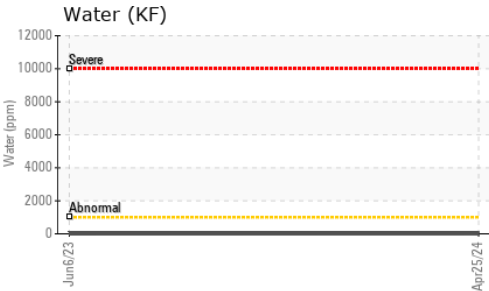
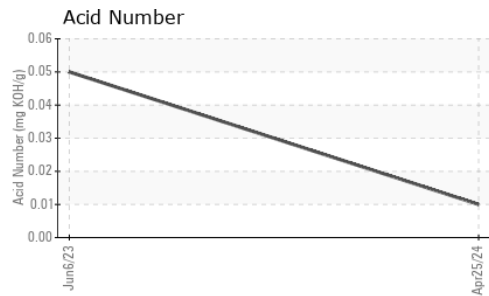
The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>50	0	<1	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
Water	%	ASTM D6304*	>0.1	0.001	0.001	---
ppm Water	ppm	ASTM D6304*	>1000	4	0.9	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	AMMON	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		0	0	---
Boron	ppm	ASTM D5185(m)		0	<1	---
Barium	ppm	ASTM D5185(m)		<1	0	---
Molybdenum	ppm	ASTM D5185(m)		0	0	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)		<1	1	---
Calcium	ppm	ASTM D5185(m)		0	<1	---
Phosphorus	ppm	ASTM D5185(m)		0	<1	---
Zinc	ppm	ASTM D5185(m)		5	5	---
Sulfur	ppm	ASTM D5185(m)		37	46	---
Acid Number (AN)	mg KOH/g	ASTM D974*		0.01	0.05	---
Visc @ 40°C	cSt	ASTM D7279(m)	73	66.9	66.7	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0924781 **Received** : 07 May 2024
Lab Number : 02633880 **Tested** : 08 May 2024
Unique Number : 5775033 **Diagnosed** : 08 May 2024 - Wes Davis
Test Package : IND 2 (Additional Tests: KF)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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