



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id  
**VEHCOM COM 001**  
Component  
**Rotary Compressor**  
Fluid  
**RENOLIN AIR OIL 460C (--- GAL)**

## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0879032	---	---
Sample Date		Client Info		29 Feb 2024	---	---
Machine Age	hrs	Client Info		1361	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ATTENTION	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>70	<1	---	---
Chromium	ppm	ASTM D5185(m)	>10	0	---	---
Nickel	ppm	ASTM D5185(m)		<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>3	<1	---	---
Lead	ppm	ASTM D5185(m)	>4	0	---	---
Copper	ppm	ASTM D5185(m)	>20	<1	---	---
Tin	ppm	ASTM D5185(m)	>3	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

## CONTAMINATION

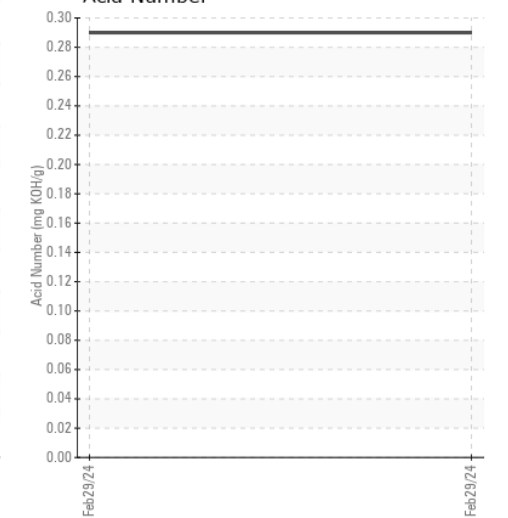
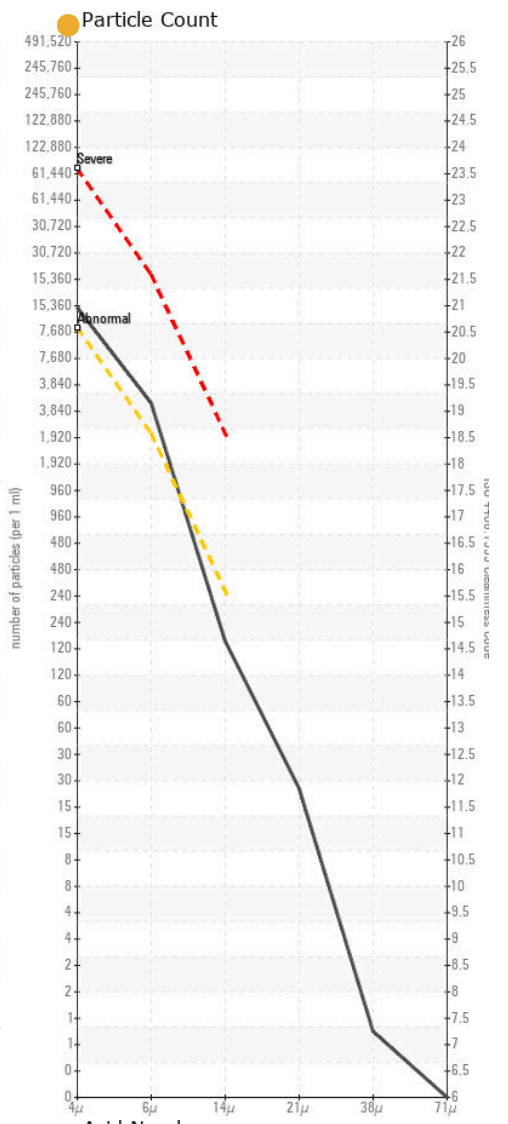
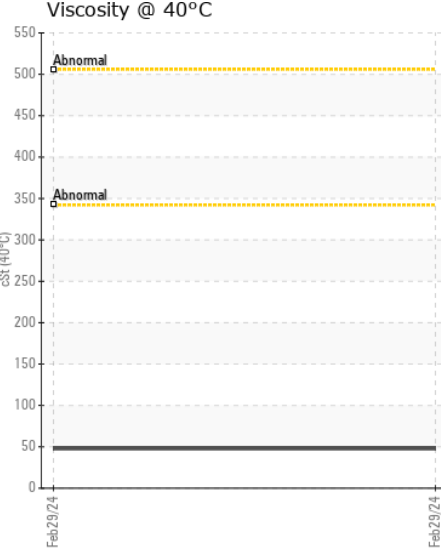
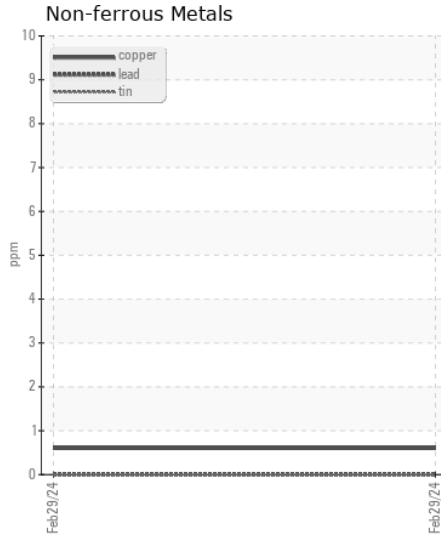
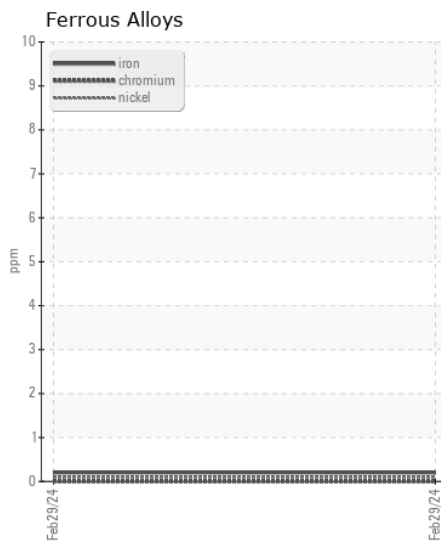
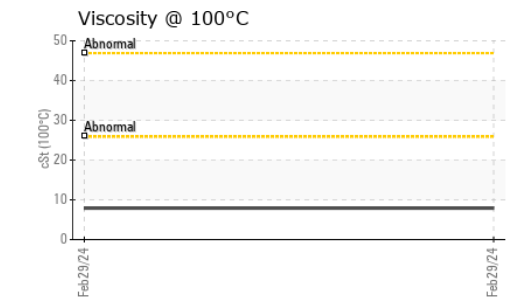
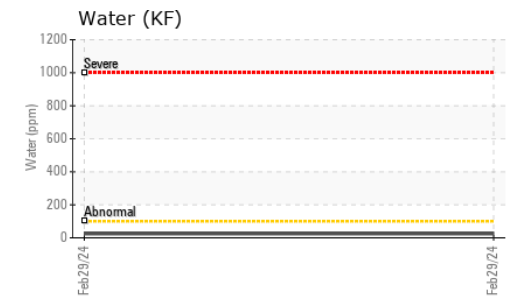
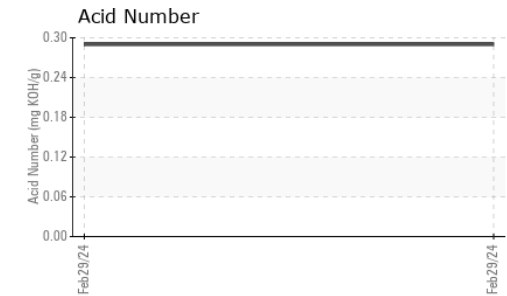
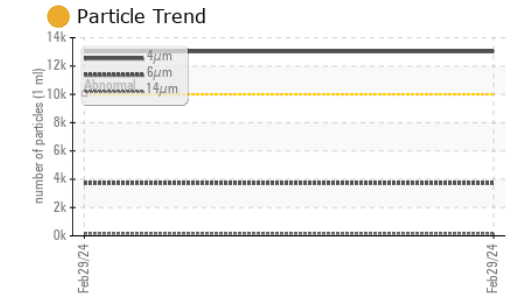
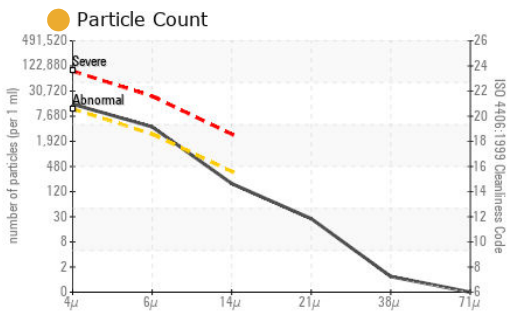
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185(m)	>45	0	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Water	%	ASTM D6304*	>0.6	0.002	---	---
ppm Water	ppm	ASTM D6304*		25	---	---
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*		3.9	---	---
Sulfation	Abs/.1mm	ASTM D7415*		65.7	---	---
Particles >4µm		ASTM D7647	>10000	13022	---	---
Particles >6µm		ASTM D7647	>2500	3722	---	---
Particles >14µm		ASTM D7647	>320	165	---	---
Particles >21µm		ASTM D7647	>80	24	---	---
Particles >38µm		ASTM D7647	>20	1	---	---
Particles >71µm		ASTM D7647	>4	0	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	21/19/15	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.6	NEG	---	---

## FLUID CONDITION

Viscosity of sample indicates oil is within ISO 46 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		0	---	---
Boron	ppm	ASTM D5185(m)		1	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		0	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)		<1	---	---
Calcium	ppm	ASTM D5185(m)		0	---	---
Phosphorus	ppm	ASTM D5185(m)		301	---	---
Zinc	ppm	ASTM D5185(m)		<1	---	---
Sulfur	ppm	ASTM D5185(m)		543	---	---
Oxidation	Abs/.1mm	ASTM D7414*		91.0	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		0.29	---	---
Visc @ 40°C	cSt	ASTM D7279(m)		47.8	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		7.9	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		135	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0879032  
**Lab Number** : 02619562  
**Unique Number** : 5736672  
**Test Package** : IND 2 ( Additional Tests: FT-IR, KF, KV100, PrtCount, VI )  
**Received** : 04 Mar 2024  
**Tested** : 05 Mar 2024  
**Diagnosed** : 05 Mar 2024 - Kevin Marson

**FUCHS LUBRICANTS CANADA**  
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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.