



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
SULLAIR 20019 - CHAMPION HOMES

Component
Compressor

Fluid
QC ULTRA (--- GAL)

RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO50001862	QUC0000269	---
Sample Date		Client Info		05 Jan 2024	20 Jan 2023	---
Machine Age	hrs	Client Info		37464	15218	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changed	Not Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<1	<1	---
Chromium	ppm	ASTM D5185m	>10	<1	0	---
Nickel	ppm	ASTM D5185m		0	<1	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	2	<1	---
Lead	ppm	ASTM D5185m	>25	<1	0	---
Copper	ppm	ASTM D5185m	>50	2	<1	---
Tin	ppm	ASTM D5185m	>15	<1	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	VLITE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

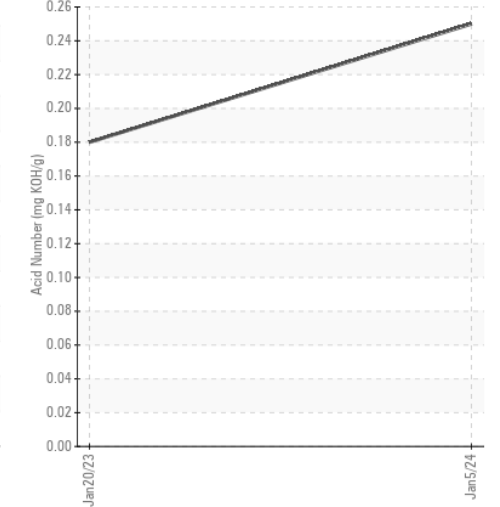
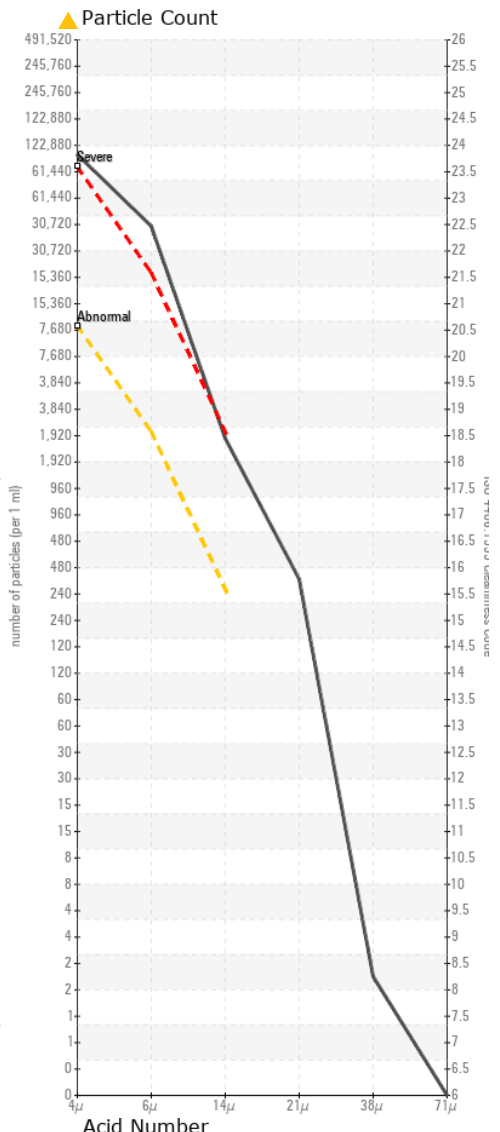
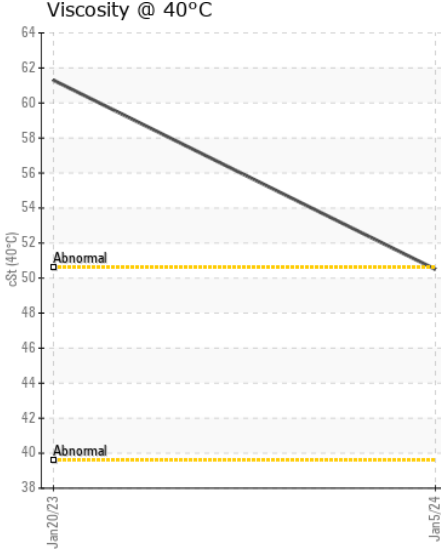
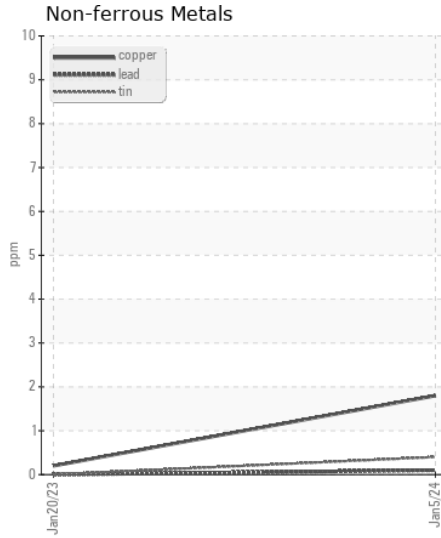
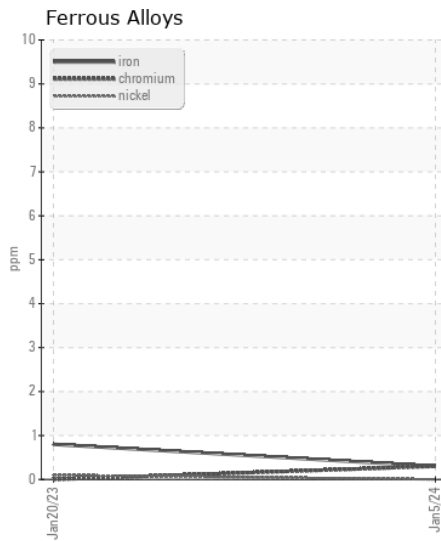
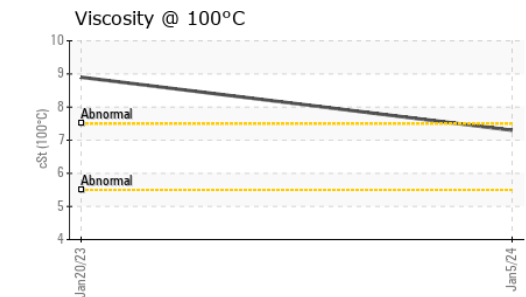
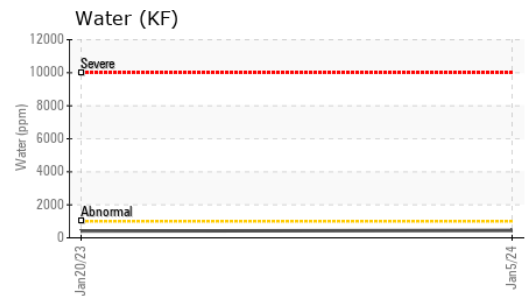
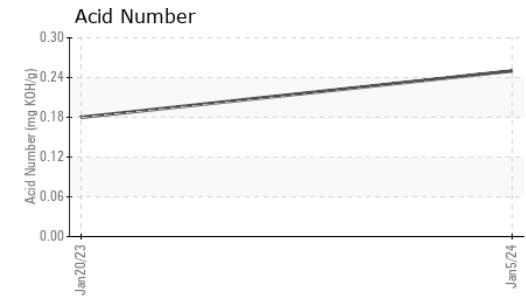
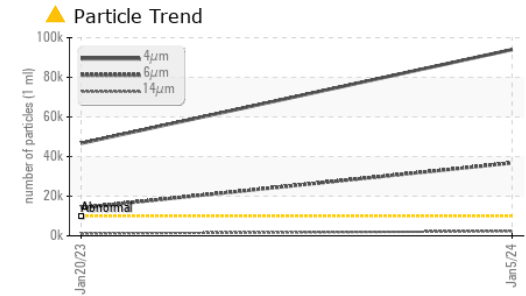
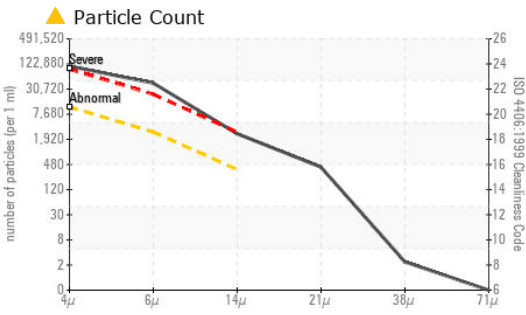
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	5	▲ 38	---
Potassium	ppm	ASTM D5185m	>20	3	1	---
Water	%	ASTM D6304	>0.1	0.044	0.041	---
ppm Water	ppm	ASTM D6304	>1000	448	411.3	---
Particles >4µm		ASTM D7647	>10000	▲ 93998	▲ 46692	---
Particles >6µm		ASTM D7647	>2500	▲ 36795	▲ 14178	---
Particles >14µm		ASTM D7647	>320	▲ 2288	▲ 1149	---
Particles >21µm		ASTM D7647	>80	▲ 363	▲ 267	---
Particles >38µm		ASTM D7647	>20	2	3	---
Particles >71µm		ASTM D7647	>4	0	0	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ 24/22/18	▲ 23/21/17	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	VLITE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
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 D5185m		43	27	---
Boron	ppm	ASTM D5185m		0	0	---
Barium	ppm	ASTM D5185m		50	7	---
Molybdenum	ppm	ASTM D5185m		<1	0	---
Manganese	ppm	ASTM D5185m		0	<1	---
Magnesium	ppm	ASTM D5185m		2	1	---
Calcium	ppm	ASTM D5185m		8	4	---
Phosphorus	ppm	ASTM D5185m		412	95	---
Zinc	ppm	ASTM D5185m		1	28	---
Sulfur	ppm	ASTM D5185m		113	554	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.25	0.18	---
Visc @ 40°C	cSt	ASTM D445		50.5	61.3	---
Visc @ 100°C	cSt	ASTM D445		7.3	8.9	---
Viscosity Index (VI)	Scale	ASTM D2270		104	120	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50001862 **Received** : 30 Jan 2024
Lab Number : 06074687 **Diagnosed** : 01 Feb 2024
Unique Number : 10856778 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)
 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)

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