IND II QUALITY COMPRESSOR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Machine Id
SULLAIR 3129 - FORDERRA
Component
Compressor
Fluid
QUINCY QUINSYN (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

WEAR

All component wear rates are normal.

CONTAMINATION

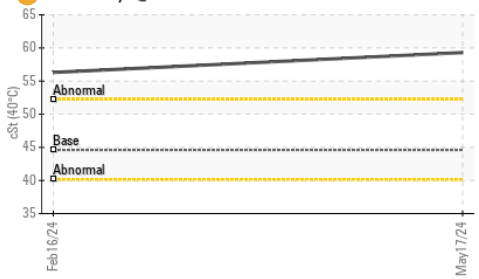
Moderate concentration of visible dirt/debris present in the oil.

FLUID CONDITION

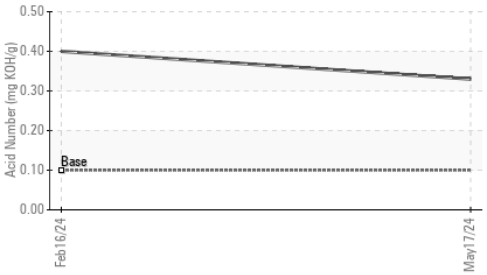
The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		QUC0000839	QUC0000655	---
Sample Date		Client Info		17 May 2024	16 Feb 2024	---
Machine Age	hrs	Client Info		69596	67421	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	N/A	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---
Iron	ppm	ASTM D5185m	>50	0	<1	---
Chromium	ppm	ASTM D5185m	>10	0	0	---
Nickel	ppm	ASTM D5185m		0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	0	0	---
Lead	ppm	ASTM D5185m	>25	0	0	---
Copper	ppm	ASTM D5185m	>50	0	<1	---
Tin	ppm	ASTM D5185m	>15	0	0	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>25	<1	<1	---
Potassium	ppm	ASTM D5185m	>20	0	<1	---
Water	%	ASTM D6304	>0.1	0.007	0.008	---
ppm Water	ppm	ASTM D6304	>1000	80	84	---
Particles >4µm		ASTM D7647	>10000	---	▲ 19888	---
Particles >6µm		ASTM D7647	>2500	---	▲ 6703	---
Particles >14µm		ASTM D7647	>320	---	▲ 770	---
Particles >21µm		ASTM D7647	>80	---	▲ 196	---
Particles >38µm		ASTM D7647	>20	---	7	---
Particles >71µm		ASTM D7647	>4	---	0	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	---	▲ 21/20/17	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	NONE	---
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	---
Sodium	ppm	ASTM D5185m		7	12	---
Boron	ppm	ASTM D5185m		0	0	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		0	0	---
Manganese	ppm	ASTM D5185m		0	0	---
Magnesium	ppm	ASTM D5185m		<1	0	---
Calcium	ppm	ASTM D5185m		3	2	---
Phosphorus	ppm	ASTM D5185m		170	105	---
Zinc	ppm	ASTM D5185m		272	246	---
Sulfur	ppm	ASTM D5185m		435	739	---
Acid Number (AN)	mg KOH/g	ASTM D8045	.10	0.33	0.40	---
Visc @ 40°C	cSt	ASTM D445	44.6	● 59.3	● 56.3	---
Visc @ 100°C	cSt	ASTM D445	7.8	9.2	8.9	---
Viscosity Index (VI)	Scale	ASTM D2270	132	134	135	---

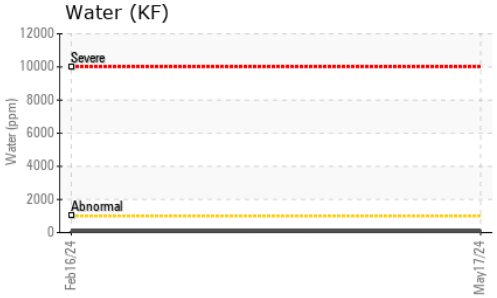
Viscosity @ 40°C



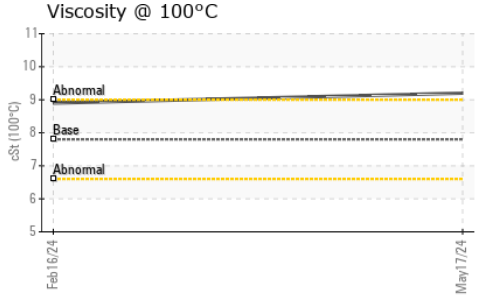
Acid Number



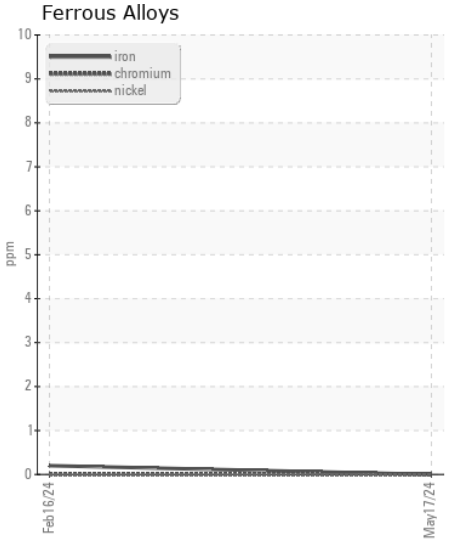
Water (KF)



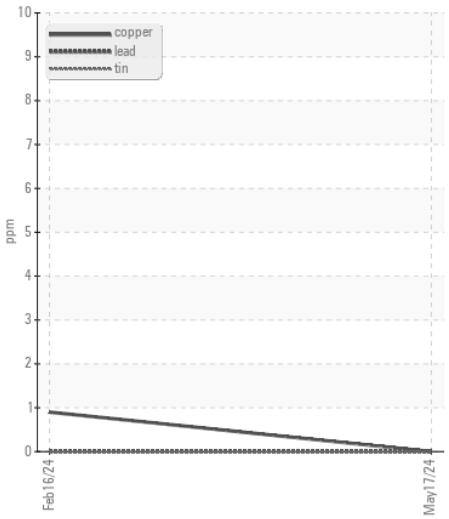
Viscosity @ 100°C



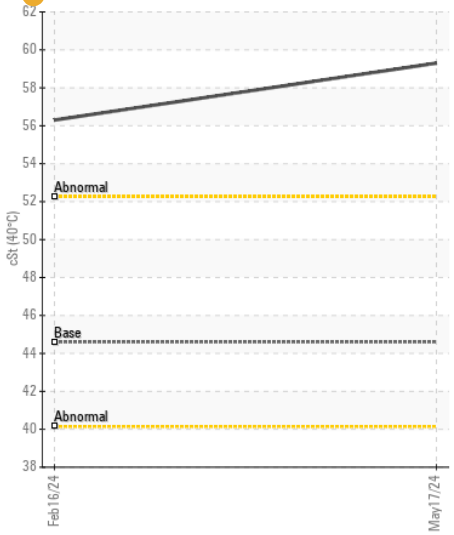
Ferrous Alloys



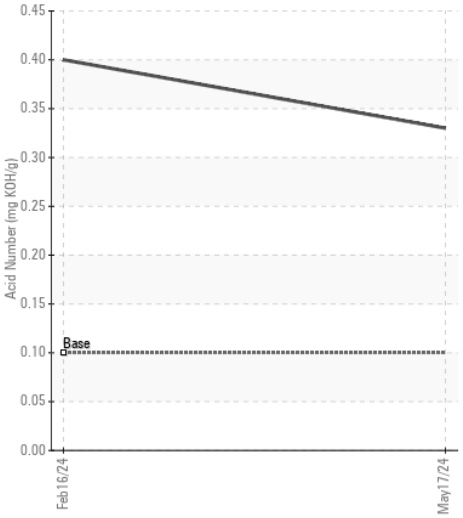
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : QUC0000839 **Received** : 14 Jun 2024
Lab Number : 06210099 **Tested** : 18 Jun 2024
Unique Number : 11082963 **Diagnosed** : 18 Jun 2024 - Angela Borella
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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