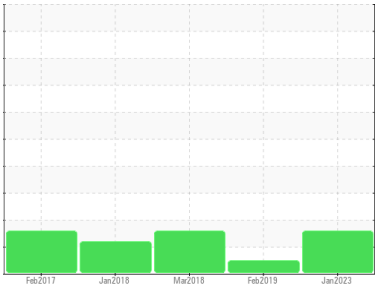
PROBLEM SUMMARY

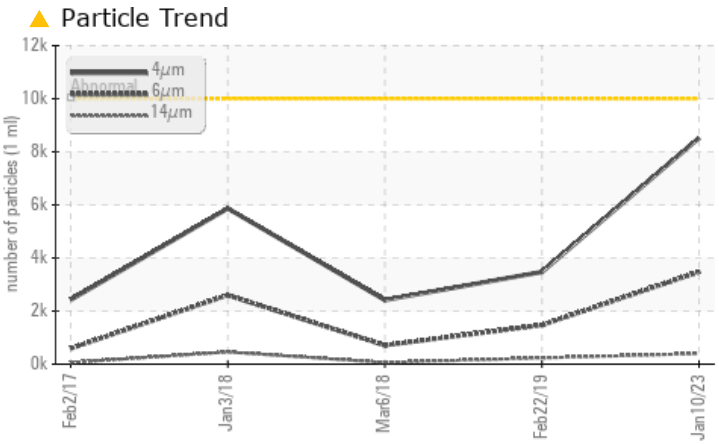
Sample Rating Trend



ISO

Machine Id
AC1B (S/N 201511230030)
Component
Compressor
Fluid
SULLAIR SULLUBE (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	NORMAL	MARGINAL
Particles >6µm		ASTM D7647	>2500	▲ **3476**	1471	709
Particles >14µm		ASTM D7647	>320	▲ **398**	233	61
Particles >21µm		ASTM D7647	>80	▲ **102**	70	11
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **20/19/16**	19/18/15	18/17/13

Customer Id: THRFAI
Sample No.: USP235991
Lab Number: 05739707
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

22 Feb 2019 Diag: Doug Bogart

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

---

06 Mar 2018 Diag: Doug Bogart

WATER

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a light concentration of water present in the oil. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

---

03 Jan 2018 Diag: Doug Bogart

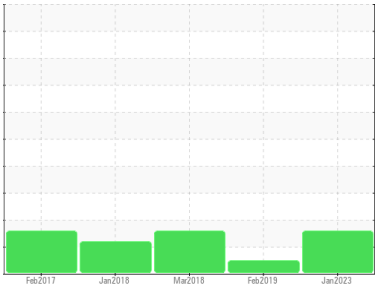
ISO

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
AC1B (S/N 201511230030)
Component
Compressor
Fluid
SULLAIR SULLUBE (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is a moderate amount of particulates present in the oil.

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**USP235991**	USP179803	USP179795
Sample Date		Client Info		**10 Jan 2023**	22 Feb 2019	06 Mar 2018
Machine Age	hrs	Client Info		**0**	14337	10673
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	Not Changd	Not Changd
Sample Status				**ATTENTION**	NORMAL	MARGINAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**<1**	<1	<1
Chromium	ppm	ASTM D5185m	>10	**<1**	0	0
Nickel	ppm	ASTM D5185m		**<1**	<1	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**0**	0	<1
Lead	ppm	ASTM D5185m	>25	**<1**	0	2
Copper	ppm	ASTM D5185m	>50	**5**	4	6
Tin	ppm	ASTM D5185m	>15	**2**	0	<1
Antimony	ppm	ASTM D5185m		**---**	2	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	<1	4
Barium	ppm	ASTM D5185m	745	**557**	698	665
Molybdenum	ppm	ASTM D5185m	0.0	**0**	<1	0
Manganese	ppm	ASTM D5185m		**0**	0	2
Magnesium	ppm	ASTM D5185m	0.0	**4**	<1	0
Calcium	ppm	ASTM D5185m	1	**<1**	2	0
Phosphorus	ppm	ASTM D5185m	3	**0**	<1	0
Zinc	ppm	ASTM D5185m	0.1	**0**	6	3
Sulfur	ppm	ASTM D5185m	240	**153**	232	188

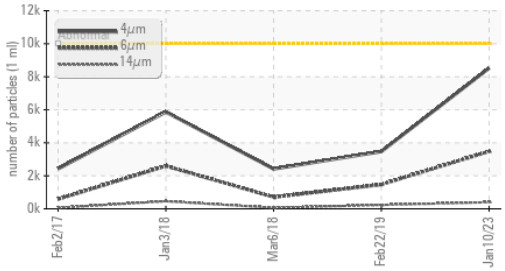
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**2**	0	<1
Sodium	ppm	ASTM D5185m		**64**	31	42
Potassium	ppm	ASTM D5185m	>20	**3**	2	8
Water	%	ASTM D6304	>0.1	**0.076**	0.079	▲ 0.202
ppm Water	ppm	ASTM D6304	>1000	**761.6**	790	▲ 2020

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	**8521**	3473	2415
Particles >6µm		ASTM D7647	>2500	▲ **3476**	1471	709
Particles >14µm		ASTM D7647	>320	▲ **398**	233	61
Particles >21µm		ASTM D7647	>80	▲ **102**	70	11
Particles >38µm		ASTM D7647	>20	**5**	1	0
Particles >71µm		ASTM D7647	>4	**1**	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **20/19/16**	19/18/15	18/17/13

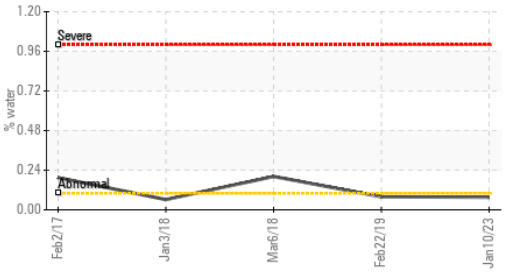
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	.06	**0.50**	0.250	0.404

OIL ANALYSIS REPORT

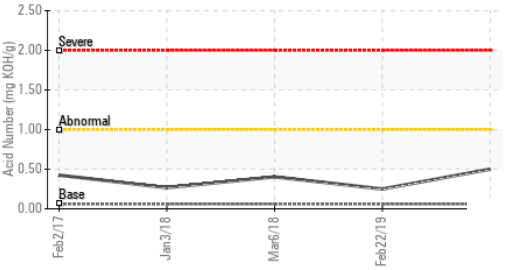
Particle Trend



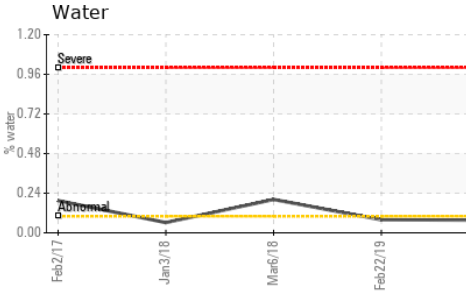
Water



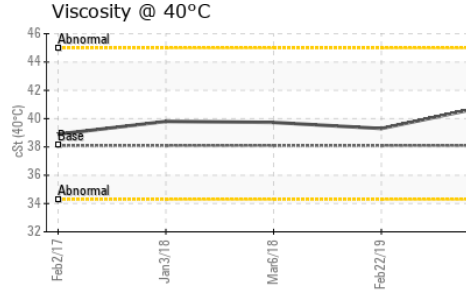
Acid Number



Water

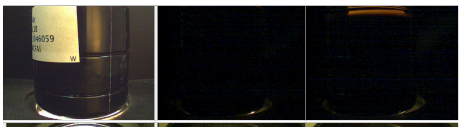


Viscosity @ 40°C



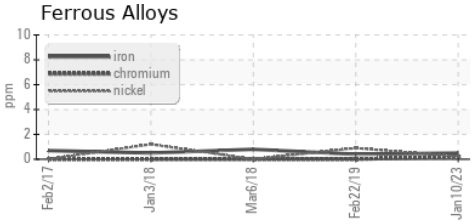
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	38.1	**40.9**	39.3	39.73

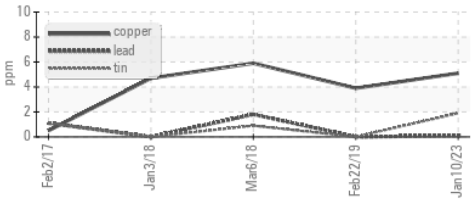
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

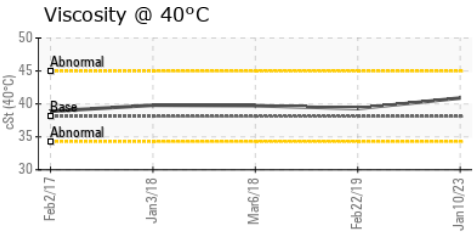
Ferrous Alloys



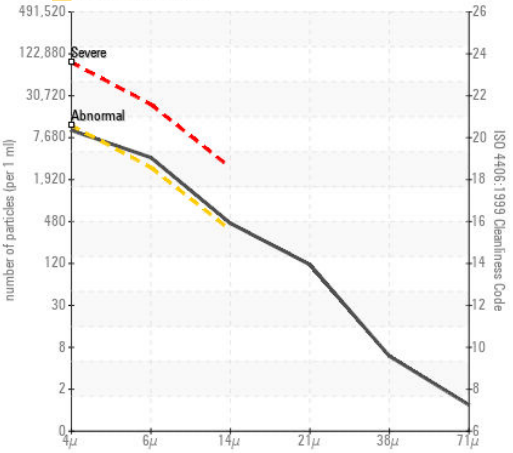
Non-ferrous Metals



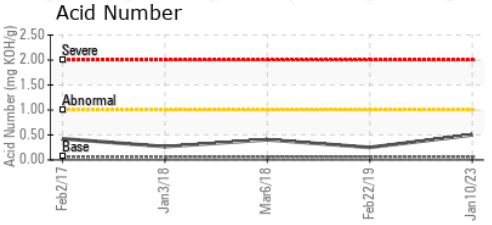
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP235991 **Received** : 16 Jan 2023
Lab Number : 05739707 **Diagnosed** : 17 Jan 2023
Unique Number : 10294306 **Diagnostician** : Doug Bogart
Test Package : IND 2

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)

3M - FAIRMONT
710 NORTH STATE STREET
FAIRMONT, MN
US 56031
Contact: JEFF NELSON
jvnelson2@mmm.com
T: (507)235-2111
F: (507)235-2180