



**PERFORMANCE  
UNDER  
PRESSURE**

**OIL ANALYSIS REPORT**

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**SULLAIR M1037**  
Component  
**Compressor**  
Fluid  
**ROYAL PURPLE SYNFILM 46 (15 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		<b>RP0033683</b>	RP0033680	---
Sample Date		Client Info		<b>28 Aug 2023</b>	28 Aug 2023	---
Machine Age	hrs	Client Info		<b>50916</b>	50916	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>139</b>	139	---
Oil Changed		Client Info		<b>N/A</b>	N/A	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>0</b>	<1	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m		<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	2	---
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>50	<b>3</b>	8	---
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

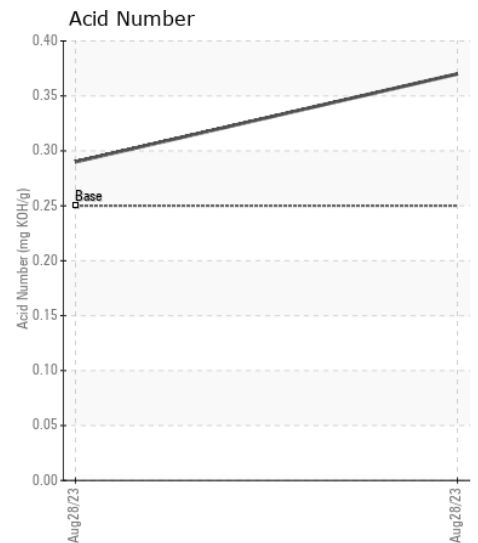
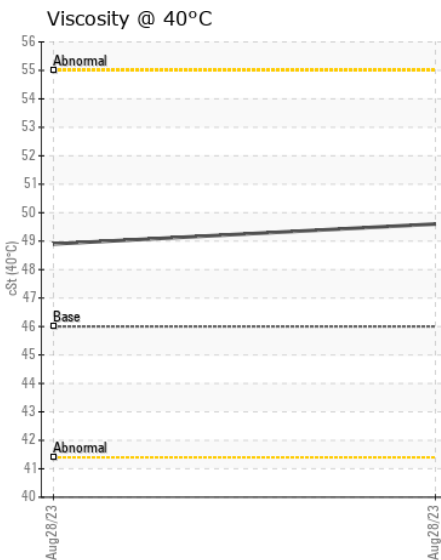
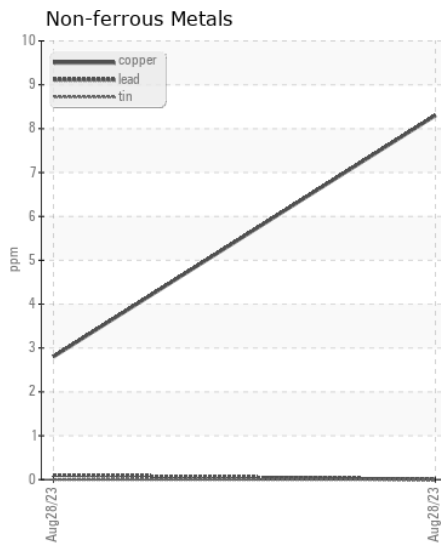
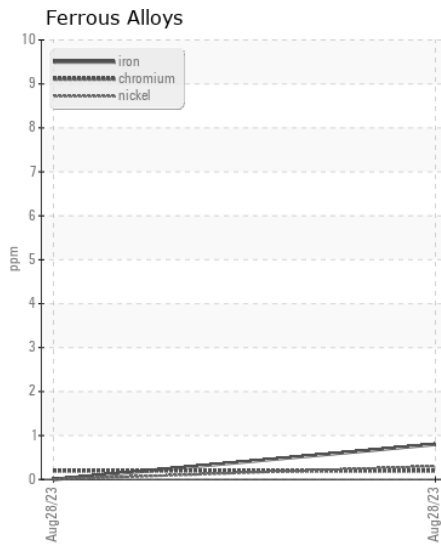
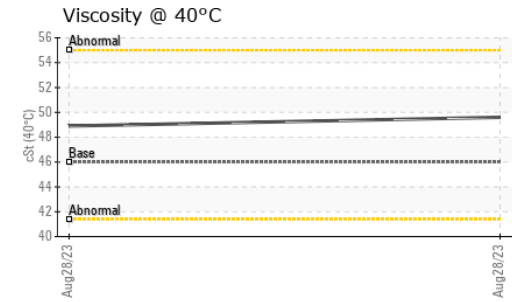
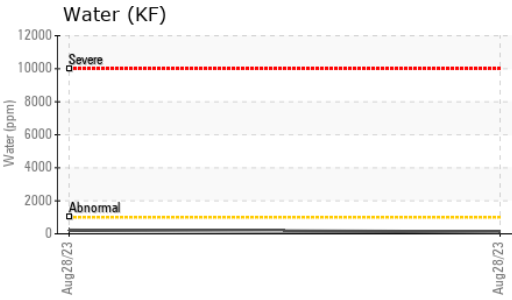
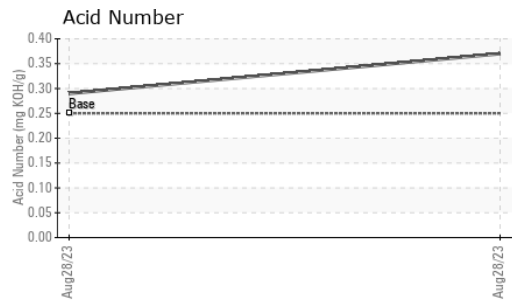
There is a moderate amount of visible silt present in the sample.

Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	2	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	---
Water	%	ASTM D6304	>0.1	<b>0.011</b>	0.021	---
ppm Water	ppm	ASTM D6304	>1000	<b>119</b>	214	---
Silt	scalar	*Visual	NONE	<b>▲ MODER</b>	▲ MODER	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	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		<b>0</b>	1	---
Boron	ppm	ASTM D5185m		<b>0</b>	0	---
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>0</b>	0	---
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Calcium	ppm	ASTM D5185m		<b>0</b>	<1	---
Phosphorus	ppm	ASTM D5185m		<b>27</b>	7	---
Zinc	ppm	ASTM D5185m		<b>0</b>	4	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.25	<b>0.37</b>	0.29	---
Visc @ 40°C	cSt	ASTM D445	46	<b>49.6</b>	48.9	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0033683 **Received** : 18 Jan 2024  
**Lab Number** : 06065068 **Diagnosed** : 22 Jan 2024  
**Unique Number** : 10836450 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**SULZER HICKHAM**  
 11518 OLD LAPORTE RD.  
 LAPORTE, TX  
 US 77571  
 Contact: EVER GARZA  
 ever.garza@sulzer.com  
 T: (713)567-2807  
 F: (713)567-2846

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)