



# OIL ANALYSIS REPORT

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

Machine Id  
**SHULTZ 35861 - SABRE**

Component  
**Compressor**

Fluid  
**SYN 46 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TO50001859</b>	QUC0000570	QUC0000490
Sample Date		Client Info		<b>28 Dec 2023</b>	25 Sep 2023	28 Jun 2023
Machine Age	hrs	Client Info		<b>12598</b>	10822	10363
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ATTENTION	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>2</b>	0	2
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m		<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	2	6
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	0	<1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

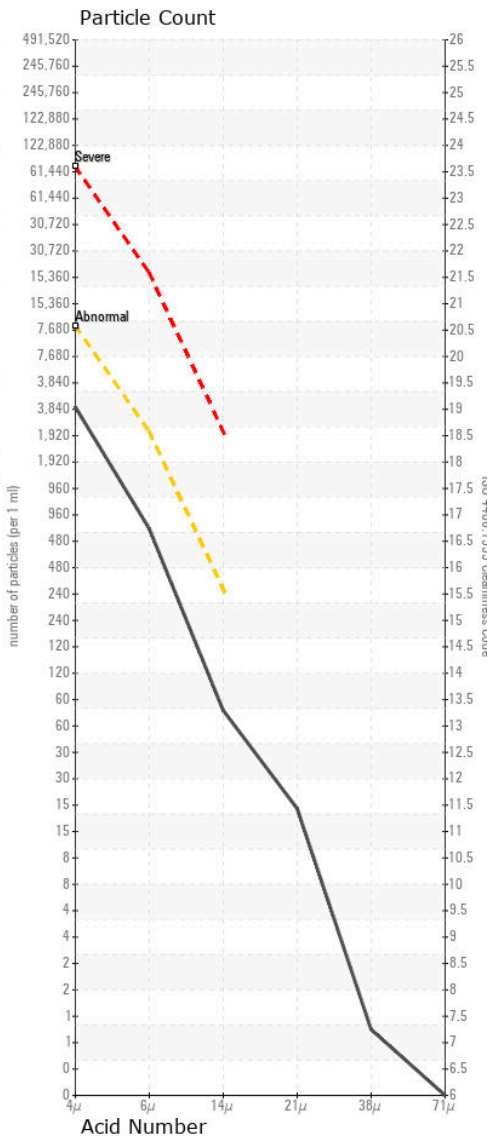
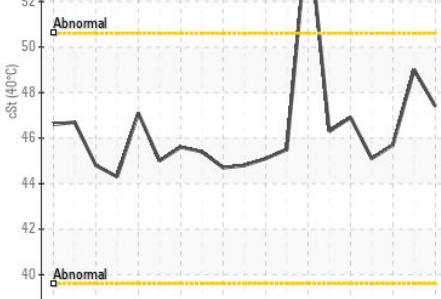
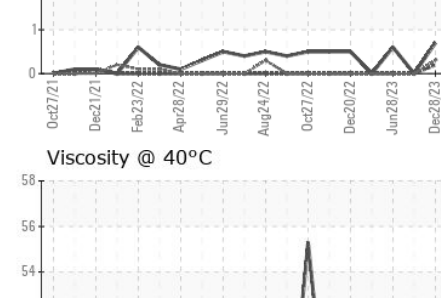
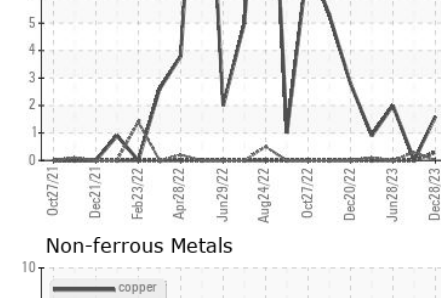
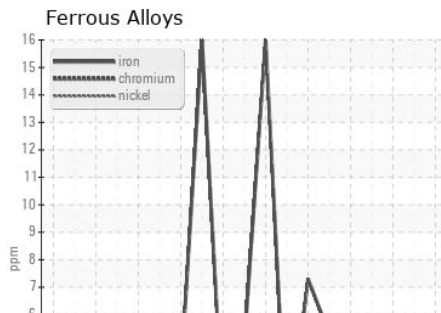
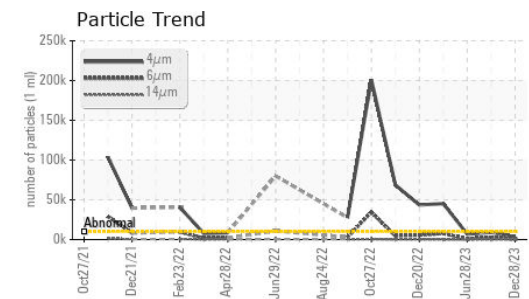
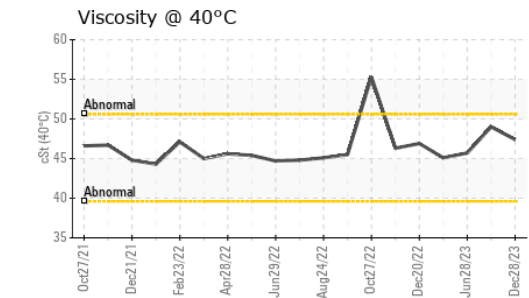
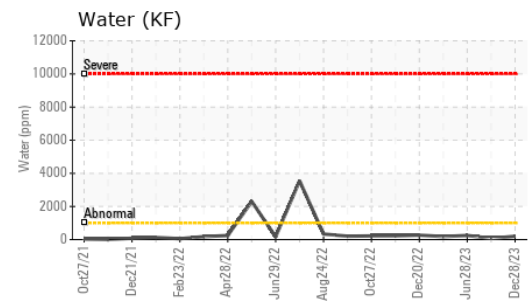
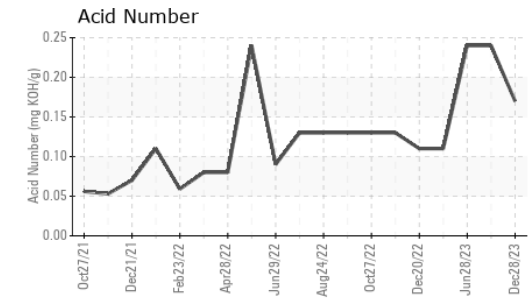
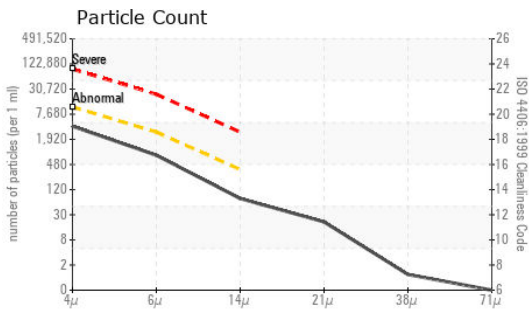
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>2</b>	<1	<1
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	1	<1
Water	%	ASTM D6304	>0.1	<b>0.019</b>	0.007	0.024
ppm Water	ppm	ASTM D6304	>1000	<b>199</b>	71.7	249.4
Particles >4µm		ASTM D7647	>10000	<b>3454</b>	9007	6798
Particles >6µm		ASTM D7647	>2500	<b>702</b>	▲ 2630	745
Particles >14µm		ASTM D7647	>320	<b>65</b>	191	29
Particles >21µm		ASTM D7647	>80	<b>18</b>	49	7
Particles >38µm		ASTM D7647	>20	<b>1</b>	2	0
Particles >71µm		ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>19/17/13</b>	▲ 20/19/15	20/17/12
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	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		<b>3</b>	2	2
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>2</b>	1	2
Calcium	ppm	ASTM D5185m		<b>&lt;1</b>	1	0
Phosphorus	ppm	ASTM D5185m		<b>314</b>	147	257
Zinc	ppm	ASTM D5185m		<b>0</b>	49	10
Sulfur	ppm	ASTM D5185m		<b>1121</b>	744	1132
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.17</b>	0.24	0.24
Visc @ 40°C	cSt	ASTM D445		<b>47.4</b>	49.0	45.7
Visc @ 100°C	cSt	ASTM D445		<b>7.8</b>	8.1	7.6
Viscosity Index (VI)	Scale	ASTM D2270		<b>133</b>	137	133



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO50001859 **Received** : 30 Jan 2024  
**Lab Number** : 06074690 **Diagnosed** : 01 Feb 2024  
**Unique Number** : 10856781 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PrtCount, VI )

**QUALITY COMPRESSOR**  
 4428 CR 616  
 ALVARADO, TX  
 US 76009  
 Contact: SEAN  
 SEAN@QCOMPRESSOR.COM  
 T: (817)822-1333  
 F:

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)