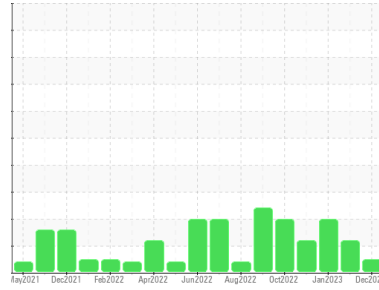


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**SHULTZ 33832 - SABRE**  
 Component  
**Compressor**  
 Fluid  
**SYN 46 (--- GAL)**

**DIAGNOSIS**

**Recommendation**

Resample at the next service interval to monitor.

**Wear**

All component wear rates are normal.

**Contamination**

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

**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			<b>TO50001860</b>	QUC0000561	QUC0000273
Sample Date	Client Info			<b>28 Dec 2023</b>	28 Sep 2023	25 Jan 2023
Machine Age	hrs	Client Info		<b>7171</b>	6486	5521
Oil Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>Not Changed</b>	Not Changd	Not Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
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>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	<1	<1
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	0	<1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

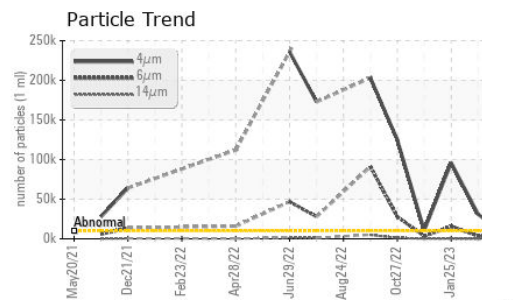
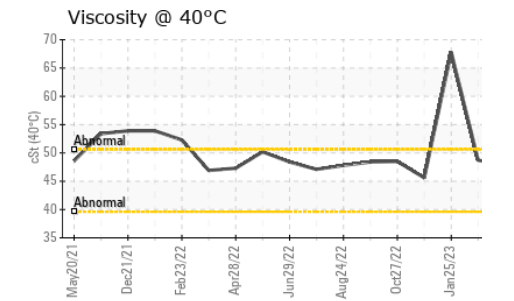
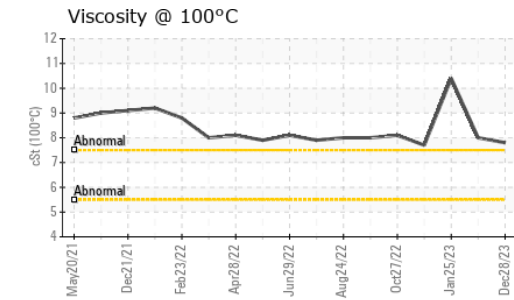
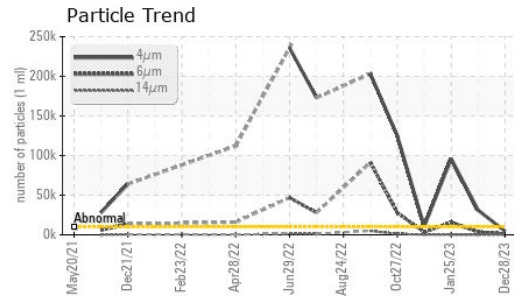
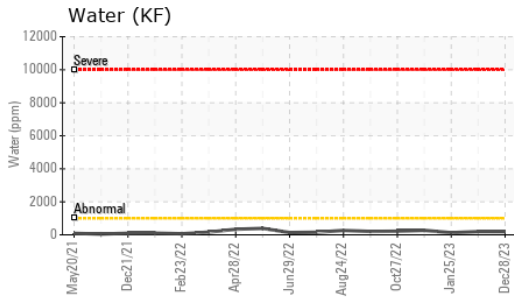
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	1
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>3</b>	2	<1
Calcium	ppm	ASTM D5185m		<b>1</b>	2	8
Phosphorus	ppm	ASTM D5185m		<b>421</b>	275	295
Zinc	ppm	ASTM D5185m		<b>0</b>	38	53
Sulfur	ppm	ASTM D5185m		<b>1460</b>	1057	798

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>3</b>	1	1
Sodium	ppm	ASTM D5185m		<b>5</b>	0	<1
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	<1	<1
Water	%	ASTM D6304	>0.1	<b>0.019</b>	0.019	0.012
ppm Water	ppm	ASTM D6304	>1000	<b>193</b>	196.1	128.6

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<b>4351</b>	▲ 31043	▲ 96030
Particles >6µm		ASTM D7647	>2500	<b>1076</b>	▲ 3543	▲ 15642
Particles >14µm		ASTM D7647	>320	<b>99</b>	58	176
Particles >21µm		ASTM D7647	>80	<b>21</b>	10	28
Particles >38µm		ASTM D7647	>20	<b>1</b>	0	1
Particles >71µm		ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>19/17/14</b>	▲ 22/19/13	▲ 24/21/15

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.17</b>	0.12	0.18

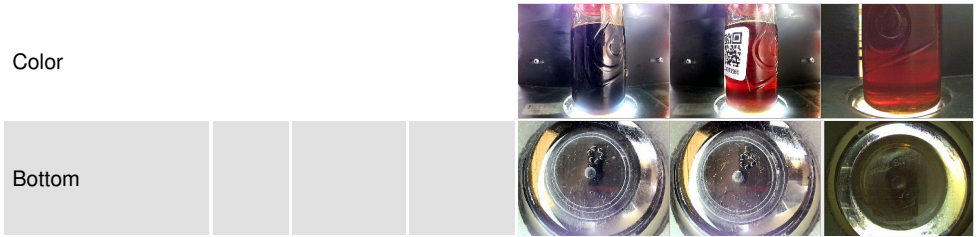
# OIL ANALYSIS REPORT



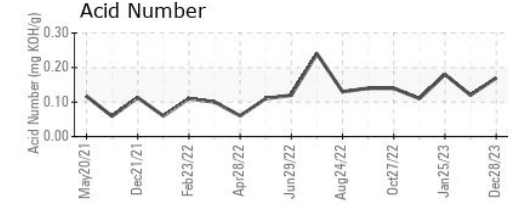
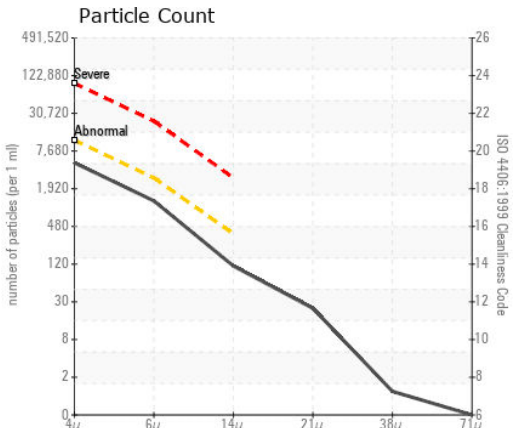
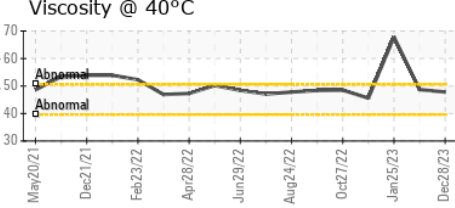
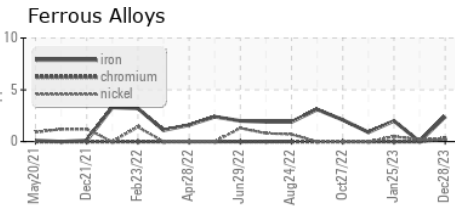
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	47.8	48.7	▲ 67.8
Visc @ 100°C	cSt	ASTM D445	7.8	8	▲ 10.4
Viscosity Index (VI)	Scale	ASTM D2270	131	135	140

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO50001860 **Received** : 30 Jan 2024  
**Lab Number** : 06074702 **Diagnosed** : 01 Feb 2024  
**Unique Number** : 10856793 **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)