

Area

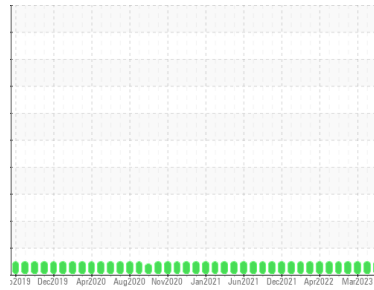
**PALASYN 45**

Machine Id

**SULLIVAN PALATEK 1903070001 - BLACKBUTTE COAL CO DRAG 2**

Component

**Compressor**



**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.

**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>UCS06152114</b>	UCS06004428	UCS05811679
Sample Date	Client Info		<b>31 Jan 2024</b>	27 Sep 2023	15 Mar 2023
Machine Age	hrs	Client Info	<b>50726</b>	47829	53353
Oil Age	hrs	Client Info	<b>0</b>	0	2000
Oil Changed	Client Info		<b>Changed</b>	Changed	Not Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

**CONTAMINATION**

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG

**WEAR METALS**

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>0</b>	0
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1
Nickel	ppm	ASTM D5185m		<b>0</b>	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0
Silver	ppm	ASTM D5185m		<b>0</b>	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	3
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	0

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0.0	<b>0</b>	0
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	7
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	0
Magnesium	ppm	ASTM D5185m	0.0	<b>0</b>	0
Calcium	ppm	ASTM D5185m	0.0	<b>&lt;1</b>	<1
Phosphorus	ppm	ASTM D5185m	966	<b>445</b>	475
Zinc	ppm	ASTM D5185m	0	<b>0</b>	0
Sulfur	ppm	ASTM D5185m	1309	<b>935</b>	1076

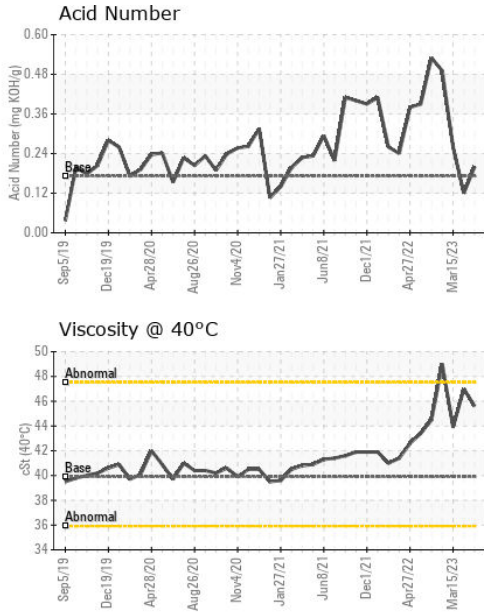
**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>2</b>	2
Sodium	ppm	ASTM D5185m		<b>1</b>	0
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.172	<b>0.20</b>	0.12

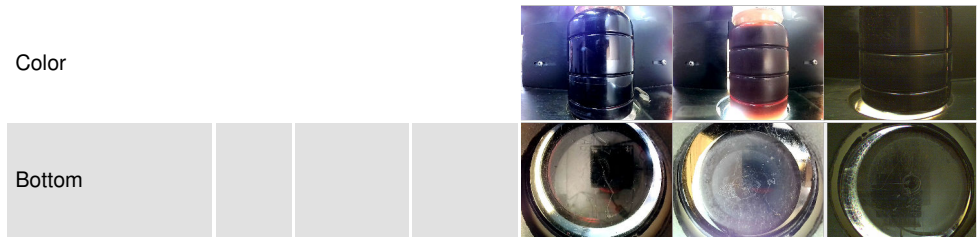
# OIL ANALYSIS REPORT



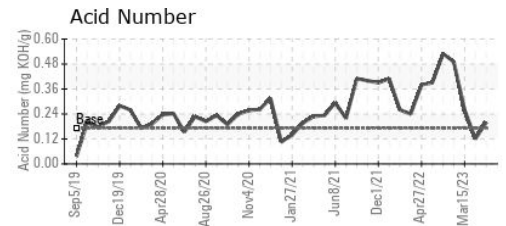
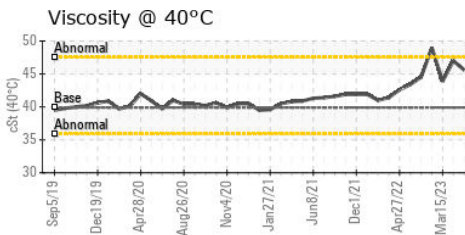
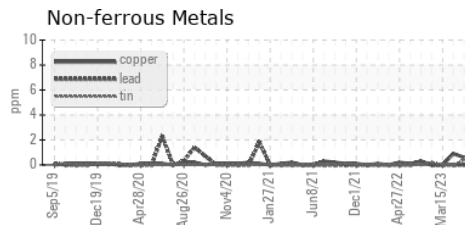
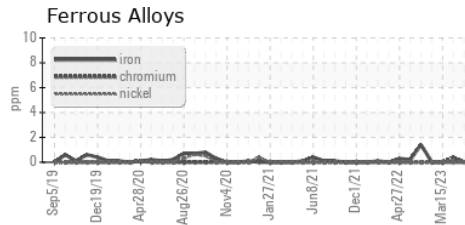
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	39.9	<b>45.6</b>	47.0	43.9

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.** : UCS06152114  
**Lab Number** : **06152114**  
**Unique Number** : 10982192  
**Test Package** : IND 2

**Received** : 17 Apr 2024  
**Tested** : 19 Apr 2024  
**Diagnosed** : 19 Apr 2024 - Sean Felton

**COMPRESSION LEASING SERVICES, INC**  
 1935 N LOOP AVENUE & 1925 N LOOP AV  
 CASPER, WY  
 US 82601

Contact: ANGIE MANZANAREZ  
 amanz@cls-inc.com

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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