

Area

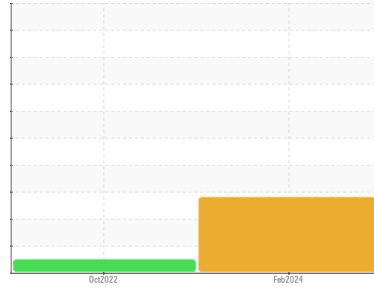
PALASYN 45

Machine Id

SULLIVAN PALATEK 21JE002509 - PRATUM CO-OP

Component

Compressor



DIAGNOSIS

Recommendation

We advise that you follow the water drain-off procedure for this component. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Excessive free water present. There is a moderate amount of visible silt present in the sample. Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		UCS06210259	UCS05765945	---
Sample Date	Client Info		13 Feb 2024	18 Oct 2022	---
Machine Age	hrs	Client Info	1772	242	---
Oil Age	hrs	Client Info	1772	242	---
Oil Changed	Client Info		Not Changed	Not Changed	---
Sample Status			ABNORMAL	NORMAL	---

WEAR METALS

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

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0.0	<1	0	---
Barium	ppm	ASTM D5185m 0.0	0	0	---
Molybdenum	ppm	ASTM D5185m 0	<1	0	---
Manganese	ppm	ASTM D5185m 0	<1	0	---
Magnesium	ppm	ASTM D5185m 0.0	0	0	---
Calcium	ppm	ASTM D5185m 0.0	0	0	---
Phosphorus	ppm	ASTM D5185m 966	291	274	---
Zinc	ppm	ASTM D5185m 0	0	0	---
Sulfur	ppm	ASTM D5185m 1309	1522	1607	---

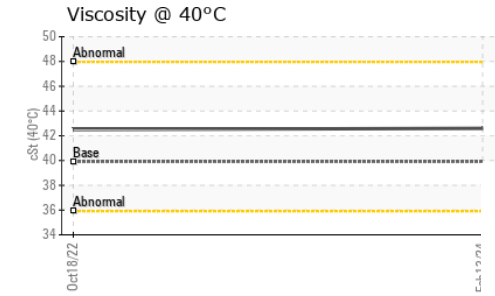
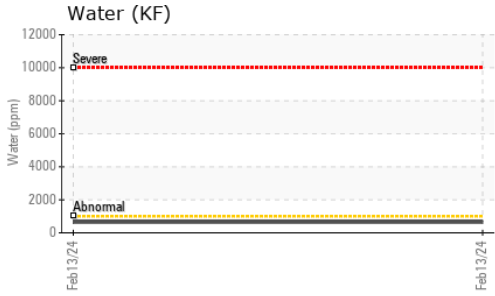
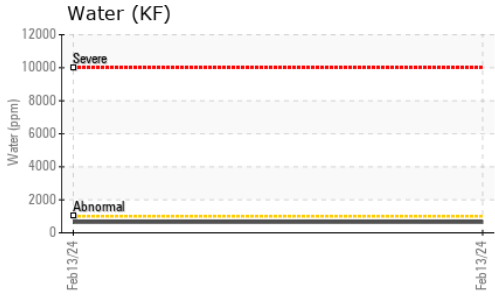
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	2	<1	---
Sodium	ppm	ASTM D5185m	<1	<1	---
Potassium	ppm	ASTM D5185m >20	3	0	---
Water	%	ASTM D6304 >0.1	0.065	---	---
ppm Water	ppm	ASTM D6304 >1000	650	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.172	0.21	0.07	---

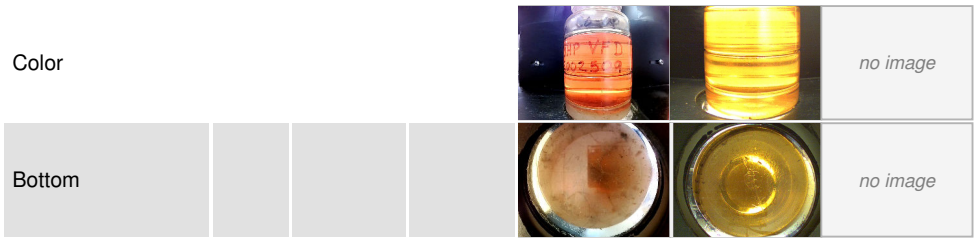
OIL ANALYSIS REPORT



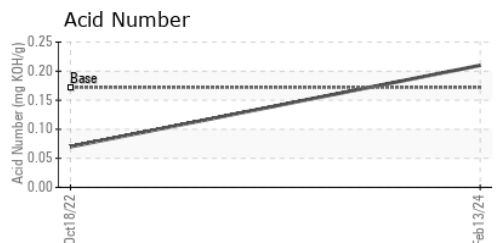
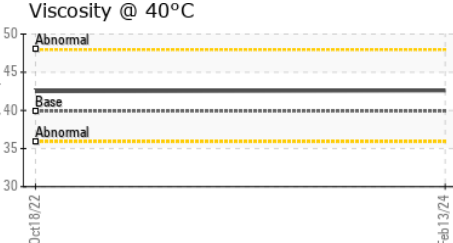
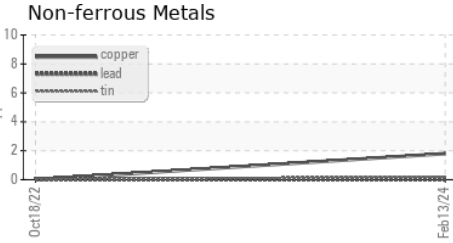
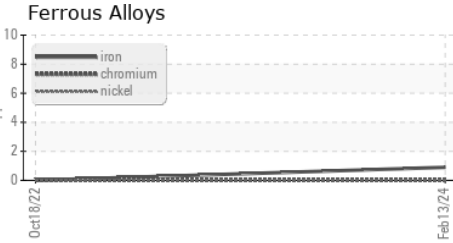
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	NONE	---
Silt	scalar	*Visual	NONE	▲ MODER	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	0.2%	NEG	---
Free Water	scalar	*Visual		▲ 10.0	NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	39.9	42.6	42.5	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UCS06210259 **Received** : 14 Jun 2024
Lab Number : **06210259** **Tested** : 18 Jun 2024
Unique Number : 11083123 **Diagnosed** : 18 Jun 2024 - Angela Borella
Test Package : IND 2 (Additional Tests: KF)

NORTHWEST COMPRESSOR
 29897 HWY 34 SW
 ALBANY, OR
 US 97321
 Contact: CRAIG WORLEY
 service@nwcompressor.com
 T: (541)752-5366
 F: (541)752-4716

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)