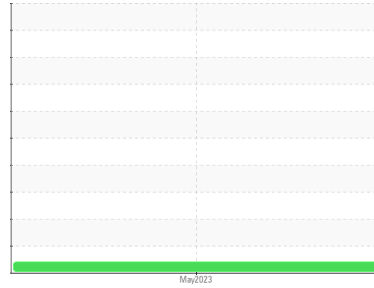




PROBLEM SUMMARY

Sample Rating Trend



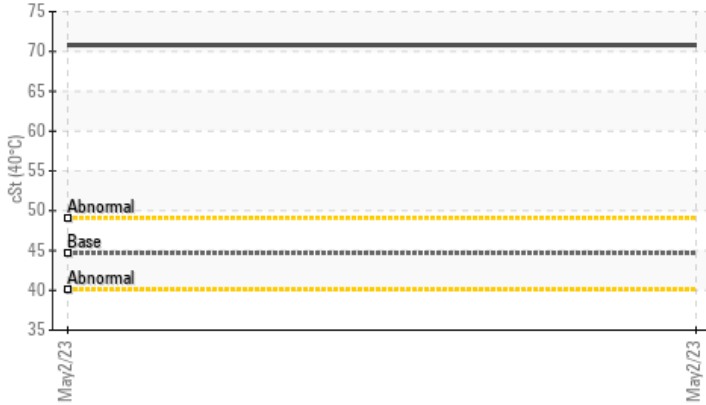
VISCOSITY



Area
PAL-EXTRA 68
Machine Id
SULLIVAN PALATEK 19JE00455 - NORTHERN NATURAL GAS (S/N 19JE000455)
Component
Compressor

COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



RECOMMENDATION

No corrective action is recommended at this time.
Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	---	---
Visc @ 40°C	cSt	ASTM D445	44.62	▲ 70.8	---	---

Customer Id: UCRA SWAT
Sample No.: UCH05841544
Lab Number: 05841544
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

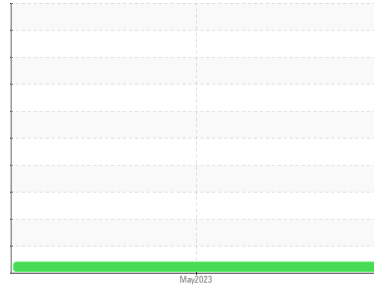


OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY

Area
PAL-EXTRA 68
 Machine Id
SULLIVAN PALATEK 19JE00455 - NORTHERN NATURAL GAS (S/N 19JE000455)
 Component
Compressor



DIAGNOSIS

Recommendation
 No corrective action is recommended at this time. 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 oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	UCH05841544	---	---
Sample Date	Client Info	02 May 2023	---	---
Machine Age	hrs	Client Info	12357	---
Oil Age	hrs	Client Info	5634	---
Oil Changed	Client Info	Not Changed	---	---
Sample Status		ATTENTION	---	---

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	0	---	---
Chromium	ppm	ASTM D5185m >10	0	---	---
Nickel	ppm	ASTM D5185m	0	---	---
Titanium	ppm	ASTM D5185m	0	---	---
Silver	ppm	ASTM D5185m	0	---	---
Aluminum	ppm	ASTM D5185m >25	6	---	---
Lead	ppm	ASTM D5185m >25	0	---	---
Copper	ppm	ASTM D5185m >50	0	---	---
Tin	ppm	ASTM D5185m >15	0	---	---
Vanadium	ppm	ASTM D5185m	0	---	---
Cadmium	ppm	ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 0	0	---	---
Barium	ppm	ASTM D5185m 0.3	0	---	---
Molybdenum	ppm	ASTM D5185m 0	0	---	---
Manganese	ppm	ASTM D5185m 0.3	0	---	---
Magnesium	ppm	ASTM D5185m 0.4	<1	---	---
Calcium	ppm	ASTM D5185m 0	0	---	---
Phosphorus	ppm	ASTM D5185m 689	261	---	---
Zinc	ppm	ASTM D5185m 0	0	---	---
Sulfur	ppm	ASTM D5185m 1237	158	---	---

CONTAMINANTS

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

FLUID DEGRADATION

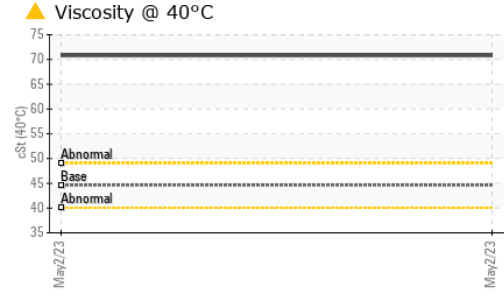
method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.135	0.30	---	---

VISUAL

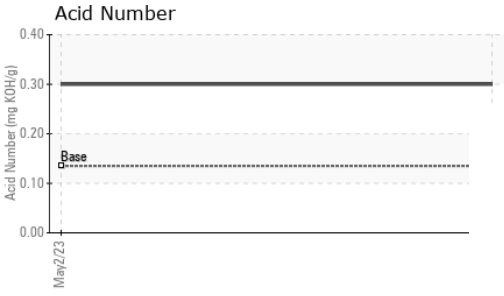
method	limit/base	current	history1	history2	
White Metal	scalar	*Visual NONE	NONE	---	---
Yellow Metal	scalar	*Visual NONE	NONE	---	---
Precipitate	scalar	*Visual NONE	NONE	---	---
Silt	scalar	*Visual NONE	NONE	---	---
Debris	scalar	*Visual NONE	NONE	---	---
Sand/Dirt	scalar	*Visual NONE	NONE	---	---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



OIL ANALYSIS REPORT



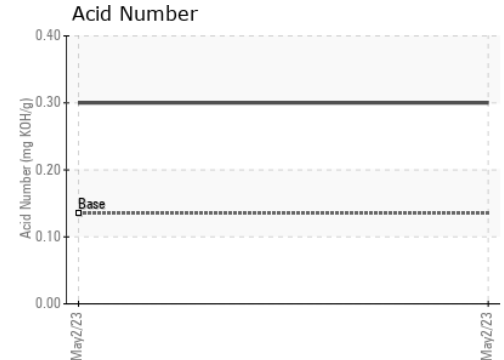
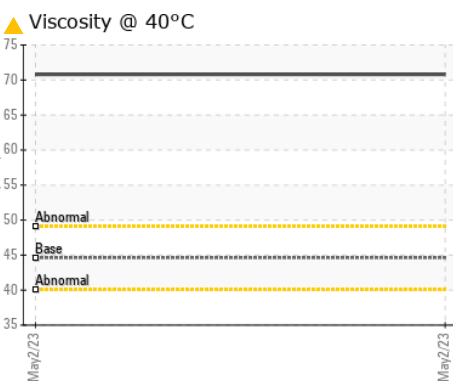
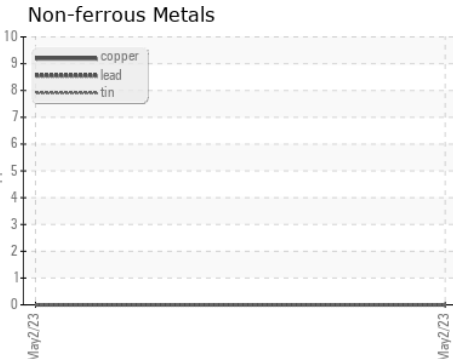
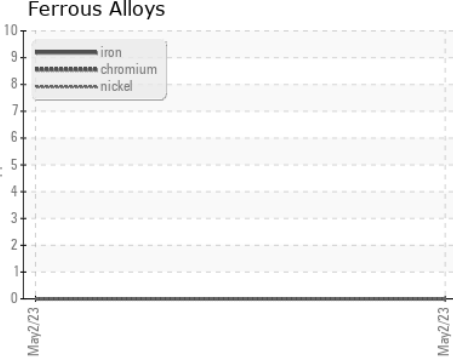
FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	44.62	▲ 70.8	---	---



SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image
Bottom				no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : UCH05841544 Received : 08 May 2023
 Lab Number : 05841544 Diagnosed : 12 May 2023
 Unique Number : 10460347 Diagnostician : Jonathan Hester
 Test Package : IND 2

RASMUSSEN AIR & GAS ENERGY

WATERLOO, NE
 US 68069
 Contact: CHASE SVOBODA
 chase.svoboda@rage-energy.com
 T: (402)614-9926
 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)