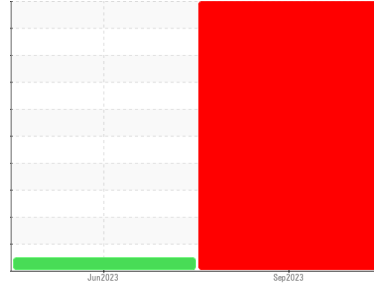
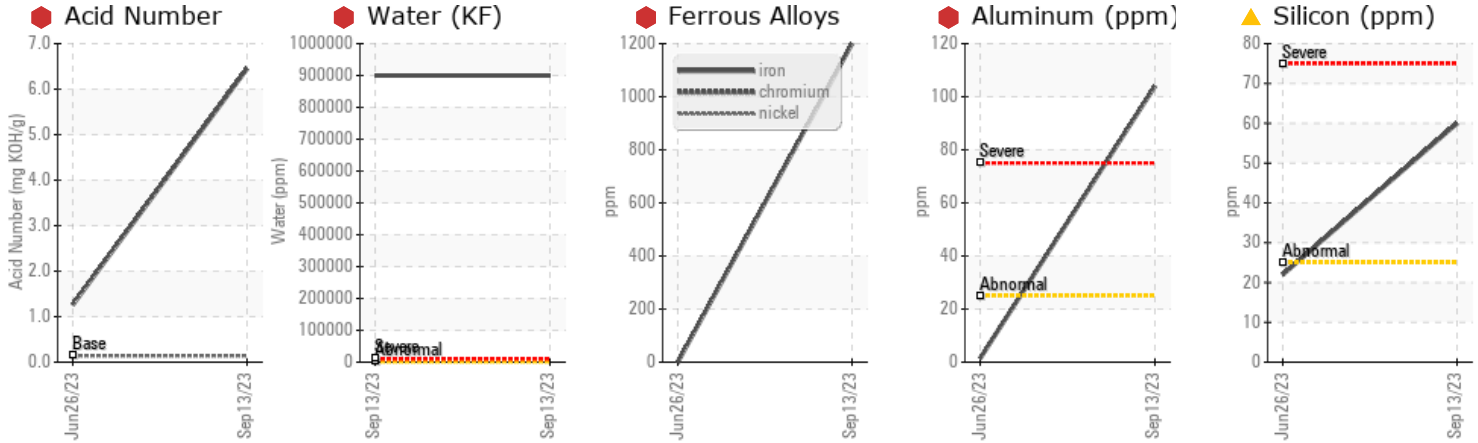


Area
PALLUBE 32 FOOD GRADE
Machine Id
SULLAIR CRYSTAL 2 (S/N NOT GIVEN)
Component
Compressor



COMPONENT CONDITION SUMMARY



RECOMMENDATION

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We advise an early resample to confirm this situation. Please note that there was too much water present in the oil to perform a viscosity test. Please note that the oil was too contaminated to perform some of the normal laboratory tests.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	NORMAL	---
Iron	ppm	ASTM D5185m	>50	1200	0	---
Aluminum	ppm	ASTM D5185m	>25	104	1	---
Silicon	ppm	ASTM D5185m	>25	60	22	---
Water	%	ASTM D6304	>0.1	90.0	---	---
ppm Water	ppm	ASTM D6304	>1000	900000	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.14	6.45	1.26	---
Debris	scalar	*Visual	NONE	HEAVY	LIGHT	---
Emulsified Water	scalar	*Visual	>0.1	0.2%	NEG	---
Free Water	scalar	*Visual		>10%	NEG	---

Customer Id: UCTOTMOD
Sample No.: UCS05960252
Lab Number: 05960252
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Flush System	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Resample	---	---	?	We advise an early resample to confirm this situation.
Alert	---	---	?	Please note that there was too much water present in the oil to perform a viscosity test.

HISTORICAL DIAGNOSIS

26 Jun 2023 Diag: Angela Borella

NORMAL

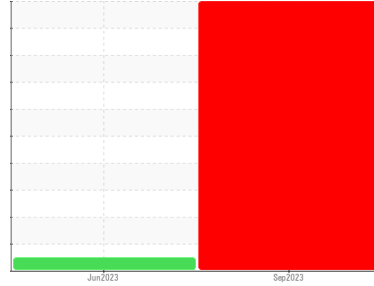


Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report



Area
PALLUBE 32 FOOD GRADE
Machine Id
SULLAIR CRYSTAL 2 (S/N NOT GIVEN)
Component
Compressor



DIAGNOSIS

Recommendation

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We advise an early resample to confirm this situation. Please note that there was too much water present in the oil to perform a viscosity test. Please note that the oil was too contaminated to perform some of the normal laboratory tests.

Wear

Aluminum and iron ppm levels are severe.

Contamination

Excessive free water present. Sample consists almost entirely of free water. High concentration of visible dirt/debris present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

Fluid Condition

The AN level is above the recommended limit. The oil is no longer serviceable.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		UCS05960252	UCS05884062	---
Sample Date	Client Info		13 Sep 2023	26 Jun 2023	---
Machine Age	hrs	Client Info	56571	54318	---
Oil Age	hrs	Client Info	4000	1000	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			SEVERE	NORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	1200	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	104	1	---
Lead	ppm	ASTM D5185m >25	2	0	---
Copper	ppm	ASTM D5185m >50	13	0	---
Tin	ppm	ASTM D5185m >15	0	0	---
Vanadium	ppm	ASTM D5185m	---	0	---
Cadmium	ppm	ASTM D5185m	---	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 1	17	0	---
Barium	ppm	ASTM D5185m 730	---	4	---
Molybdenum	ppm	ASTM D5185m 0	4	0	---
Manganese	ppm	ASTM D5185m 0.0	---	0	---
Magnesium	ppm	ASTM D5185m 0	5	<1	---
Calcium	ppm	ASTM D5185m 0	23	0	---
Phosphorus	ppm	ASTM D5185m 0	85	213	---
Zinc	ppm	ASTM D5185m 0	181	0	---
Sulfur	ppm	ASTM D5185m 590	4249	445	---

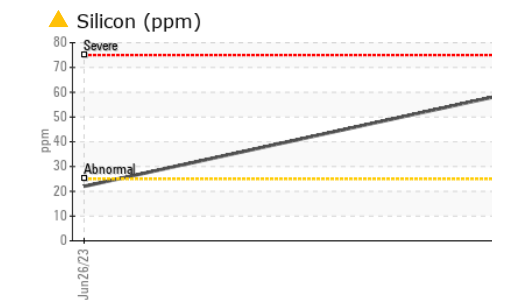
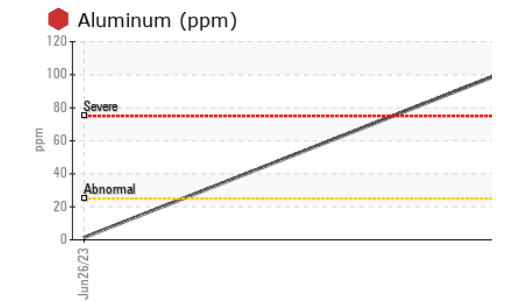
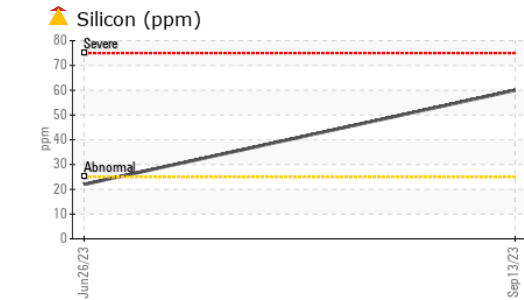
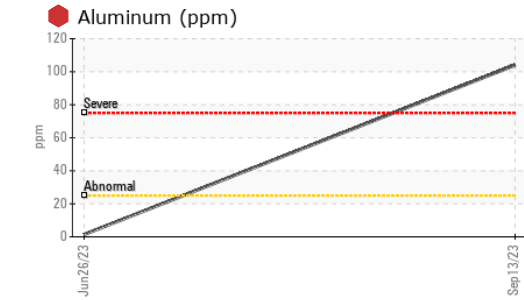
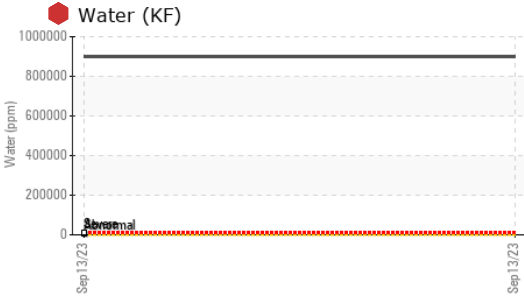
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	60	22	---
Sodium	ppm	ASTM D5185m	168	<1	---
Potassium	ppm	ASTM D5185m >20	0	0	---
Chlorine	ppm	ASTM D5185m	38	---	---
Water	%	ASTM D6304 >0.1	90.0	---	---
ppm Water	ppm	ASTM D6304 >1000	900000	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.14	6.45	1.26	---

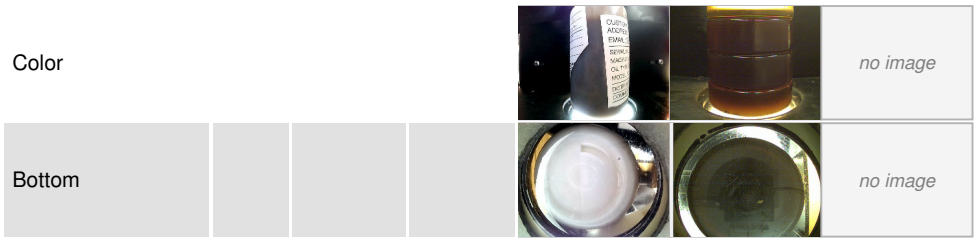
OIL ANALYSIS REPORT



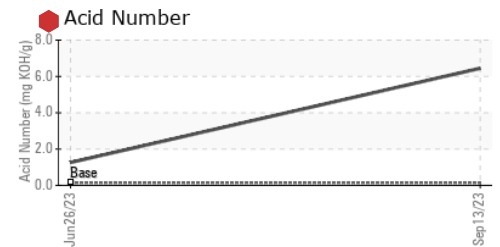
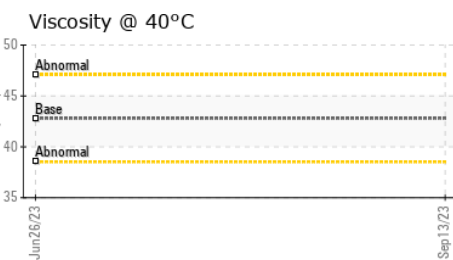
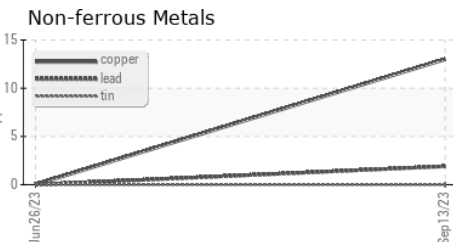
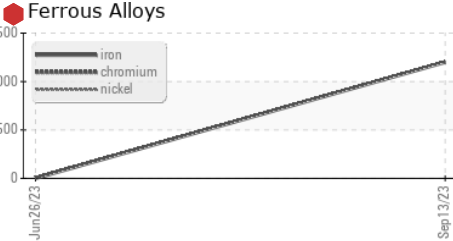
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	▲ HEAVY	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	● 0.2%	NEG	---
Free Water	scalar	*Visual	● >10%	NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	42.8	---	44.2

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UCS05960252 **Received** : 25 Sep 2023
Lab Number : 05960252 **Diagnosed** : 04 Oct 2023
Unique Number : 10661465 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF)

TOTAL POWER
 1440 CARPENTER LN
 MODESTO, CA
 US 95351
 Contact: STEVE TURNER
 totalpowersteve@yahoo.com
 T: (209)605-4465
 F:

Certificate L2367
 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)