



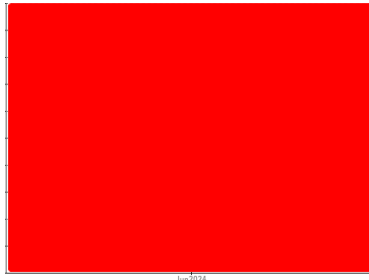
# PROBLEM SUMMARY

Sample Rating Trend

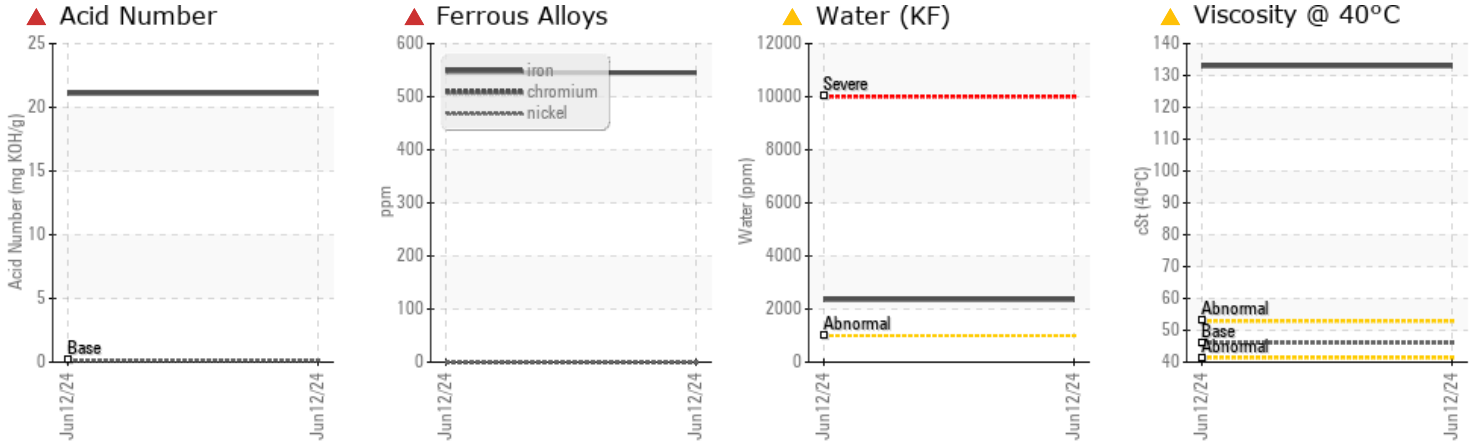
WEAR



Area  
**ROTO XTEND [1869]**  
 Machine Id  
**ATLAS COPCO API332790 - CALPINE TX CITY**  
 Component  
**Compressor**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>50	▲ 545	---	---
Water	%	ASTM D6304	>0.1	▲ 0.236	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 2360	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.14	▲ 21.1	---	---
Silt	scalar	*Visual	NONE	▲ MODER	---	---
Visc @ 40°C	cSt	ASTM D445	46	▲ 133	---	---

Customer Id: UCAIRDEE  
 Sample No.: UCH06208804  
 Lab Number: 06208804  
 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](mailto:dougb@wearcheckusa.com)

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

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
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 recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area

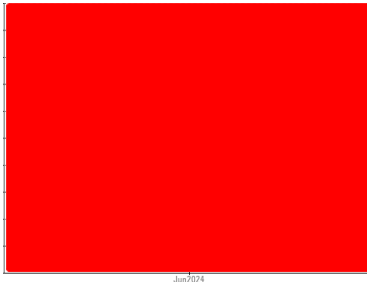
**ROTO XTEND [1869]**

Machine Id

**ATLAS COPCO API332790 - CALPINE TX CITY**

Component

**Compressor**



## DIAGNOSIS

### ▲ Recommendation

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

### ▲ Wear

The iron level is severe.

### ▲ Contamination

There is a moderate amount of visible silt present in the sample. There is a light concentration of water present in the oil.

### ▲ Fluid Condition

The AN level is above the recommended limit. The oil viscosity is higher than normal. TAN level indicates possible presence of varnish.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>UCH06208804</b>	---	---
Sample Date	Client Info		<b>12 Jun 2024</b>	---	---
Machine Age	hrs	Client Info	<b>33527</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>Not Chngd</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>▲ 545</b>	---	---
Chromium	ppm	ASTM D5185m >5	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m	<b>0</b>	---	---
Silver	ppm	ASTM D5185m	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m >15	<b>3</b>	---	---
Lead	ppm	ASTM D5185m >65	<b>0</b>	---	---
Copper	ppm	ASTM D5185m >65	<b>30</b>	---	---
Tin	ppm	ASTM D5185m >10	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>5</b>	---	---
Barium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	---	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m	<b>0</b>	---	---
Calcium	ppm	ASTM D5185m	<b>0</b>	---	---
Phosphorus	ppm	ASTM D5185m	<b>23</b>	---	---
Zinc	ppm	ASTM D5185m	<b>92</b>	---	---
Sulfur	ppm	ASTM D5185m	<b>19</b>	---	---

## CONTAMINANTS

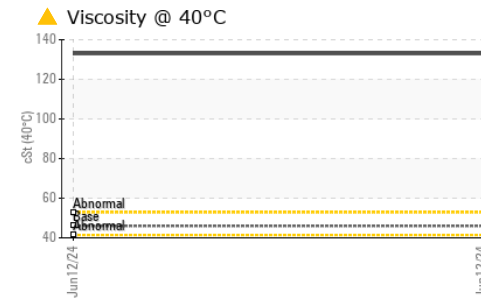
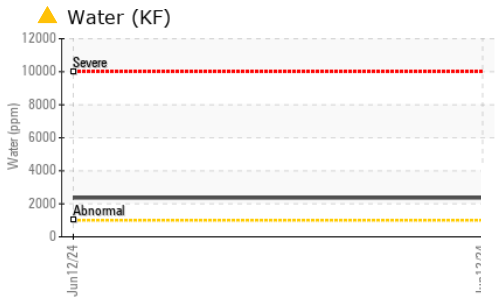
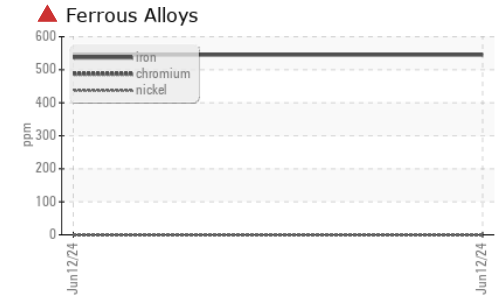
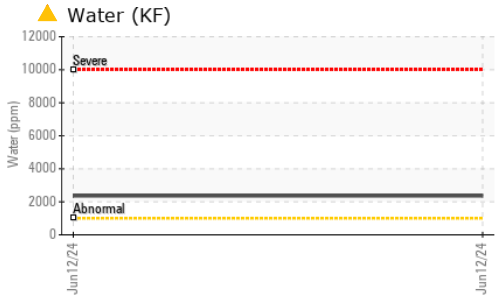
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >35	<b>0</b>	---	---
Sodium	ppm	ASTM D5185m	<b>71</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>11</b>	---	---
Water	%	ASTM D6304 >0.1	<b>▲ 0.236</b>	---	---
ppm Water	ppm	ASTM D6304 >1000	<b>▲ 2360</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.14	<b>▲ 21.1</b>	---	---



# OIL ANALYSIS REPORT



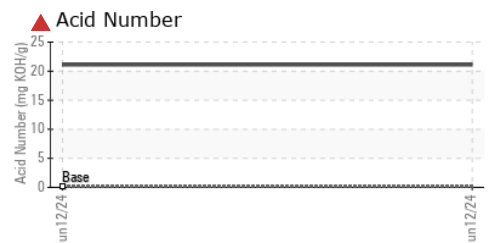
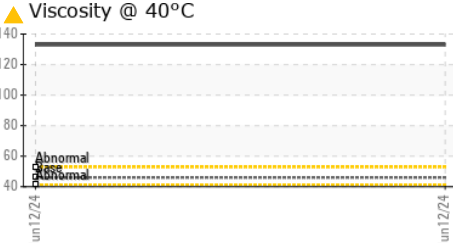
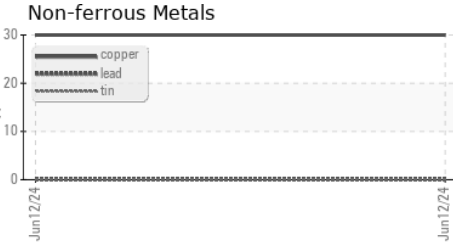
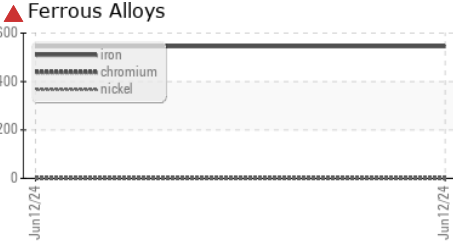
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	▲ MODER	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	46	▲ 133	---	---

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.** : UCH06208804      **Received** : 13 Jun 2024  
**Lab Number** : 06208804      **Tested** : 17 Jun 2024  
**Unique Number** : 11076265      **Diagnosed** : 17 Jun 2024 - Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: KF )

**AIR SPECIALTY & EQUIPMENT COMPANY**  
 2814 EAST P ST  
 DEER PARK, TX  
 US 77536  
 Contact: Brandon Schmill  
 Bschmill@airspecialty.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)

T:  
F: