

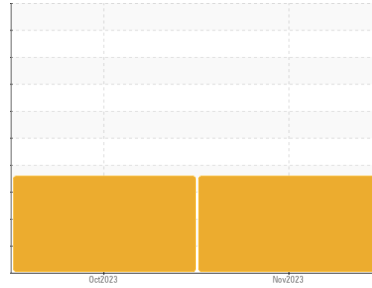
PROBLEM SUMMARY

Sample Rating Trend

DEGRADATION

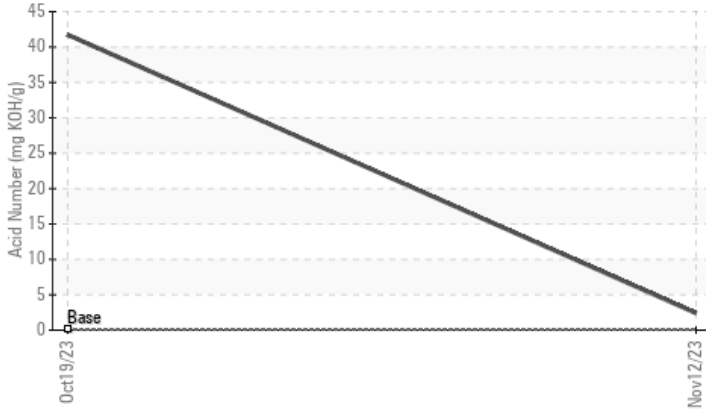


Area
S46 [270182]
 Machine Id
GARDNER DENVER S434337
 Component
Compressor
 Fluid
ULTRACHEM 46S (4 GAL)

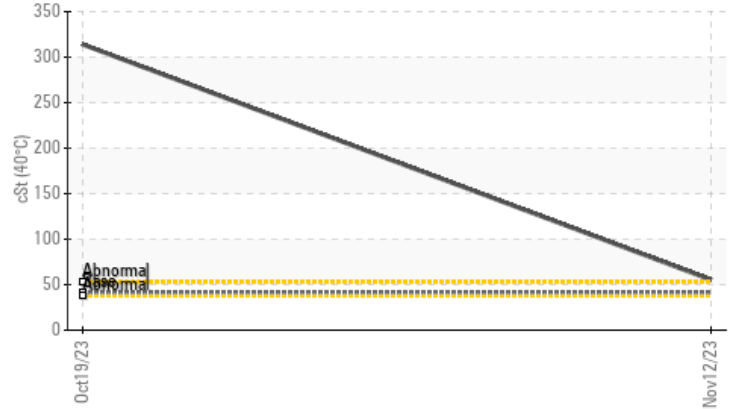


COMPONENT CONDITION SUMMARY

Acid Number



Viscosity @ 40°C



RECOMMENDATION

We advise that you check for a possible overheat condition. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.103	2.40	41.74	---
Visc @ 40°C	cSt	ASTM D445	41.61	55.3	314	---

Customer Id: UCFLUSCH
 Sample No.: UFD0000278
 Lab Number: 06012491
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

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	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Change Filter	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check For Overheating	---	---	?	We advise that you check for a possible overheat condition.

HISTORICAL DIAGNOSIS

19 Oct 2023 Diag: Jonathan Hester

DEGRADATION



We advise that you check for a possible overheat condition. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is well above the recommended limit. The oil viscosity is higher than normal. The oil is no longer serviceable.

view report



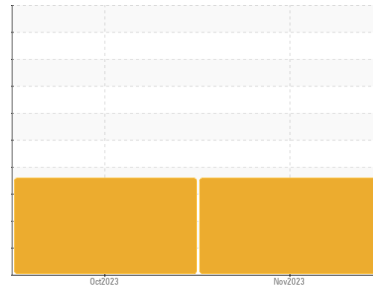
OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION



Area
S46 [270182]
 Machine Id
GARDNER DENVER S434337
 Component
Compressor
 Fluid
ULTRACHEM 46S (4 GAL)



DIAGNOSIS

Recommendation

We advise that you check for a possible overheat condition. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is above the recommended limit. The oil viscosity is higher than normal. The oil is no longer serviceable.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		UFD0000278	UFD0000069	---
Sample Date	Client Info		12 Nov 2023	19 Oct 2023	---
Machine Age	hrs	Client Info	37753	37558	---
Oil Age	hrs	Client Info	1	1200	---
Oil Changed	Client Info		N/A	Changed	---
Sample Status			SEVERE	SEVERE	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	3	8	---
Chromium	ppm	ASTM D5185m >10	0	<1	---
Nickel	ppm	ASTM D5185m	2	0	---
Titanium	ppm	ASTM D5185m	0	<1	---
Silver	ppm	ASTM D5185m	<1	0	---
Aluminum	ppm	ASTM D5185m >25	<1	0	---
Lead	ppm	ASTM D5185m >25	0	0	---
Copper	ppm	ASTM D5185m >50	0	3	---
Tin	ppm	ASTM D5185m >15	0	<1	---
Vanadium	ppm	ASTM D5185m	<1	<1	---
Cadmium	ppm	ASTM D5185m	0	<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0.9	0	5	---
Barium	ppm	ASTM D5185m 0.1	0	10	---
Molybdenum	ppm	ASTM D5185m 0	0	<1	---
Manganese	ppm	ASTM D5185m 0.2	<1	1	---
Magnesium	ppm	ASTM D5185m 0.9	2	3	---
Calcium	ppm	ASTM D5185m 0	2	4	---
Phosphorus	ppm	ASTM D5185m 224	293	104	---
Zinc	ppm	ASTM D5185m 0	0	22	---
Sulfur	ppm	ASTM D5185m 273	287	21	---

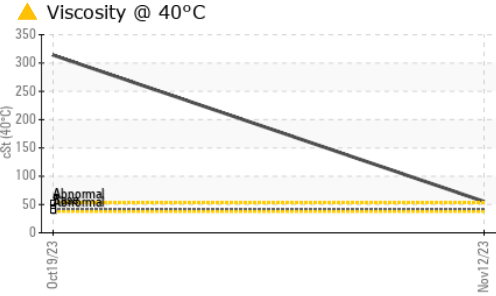
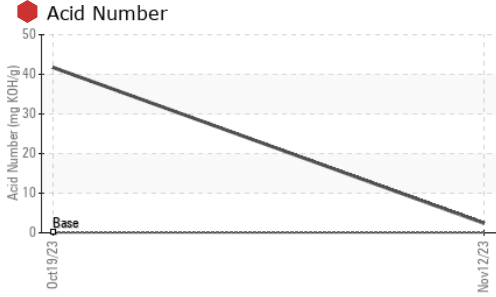
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	2	1	---
Sodium	ppm	ASTM D5185m	2	10	---
Potassium	ppm	ASTM D5185m >20	2	4	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.103	2.40	41.74	---

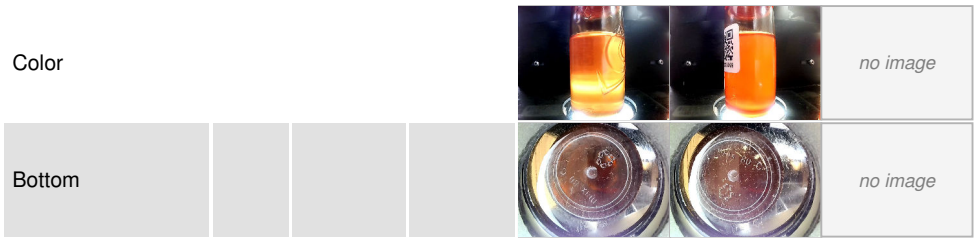
OIL ANALYSIS REPORT



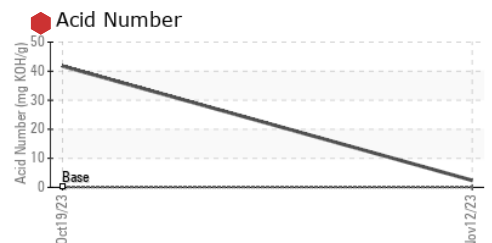
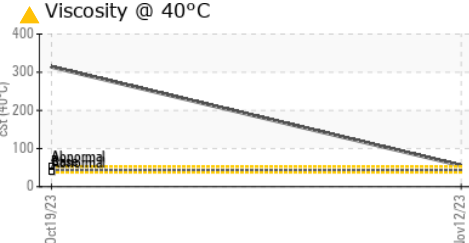
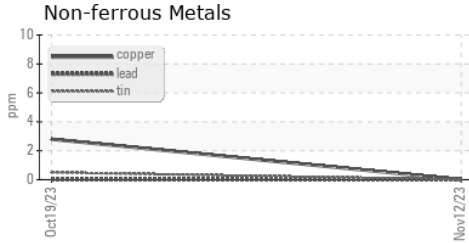
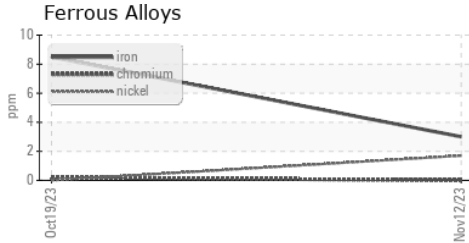
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	41.61 ▲ 55.3	▲ 314	---

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. : UFD0000278 **Received** : 20 Nov 2023
Lab Number : 06012491 **Diagnosed** : 22 Nov 2023
Unique Number : 10751635 **Diagnostician** : Don Baldrige
Test Package : IND 2

FLUID-AIRE DYNAMICS
 550 ALBION AVE
 SCHAUMBURG, IL
 US 60193
 Contact: ED DIENER
 ed.diener@fluidairedynamics.com
 T: (847)678-8388
 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)