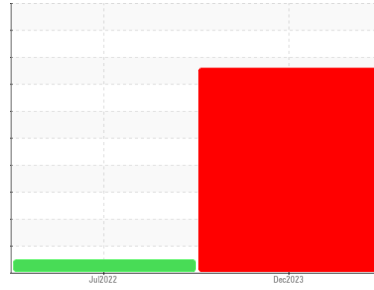




PROBLEM SUMMARY

Sample Rating Trend



WEAR



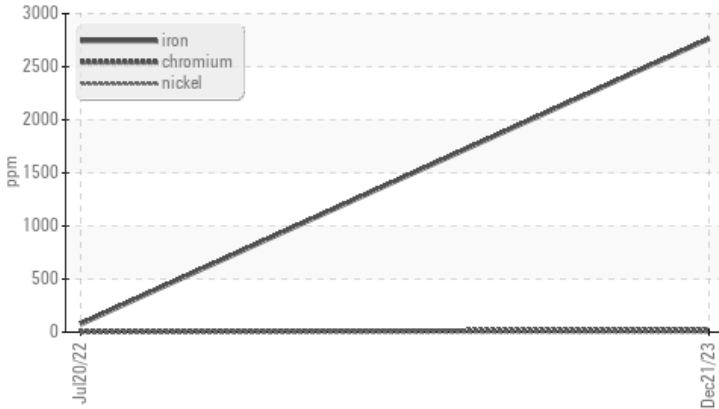
Machine Id
040-R0006

Component
Right Final Drive

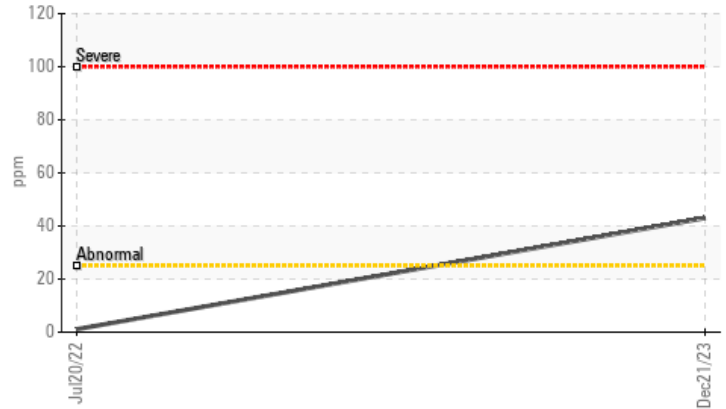
Fluid
SCHAEFFER SCHAEFFER 293 MOLY 75W90 (--- GAL)

COMPONENT CONDITION SUMMARY

Ferrous Alloys



Aluminum (ppm)



RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. 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	NORMAL	---
Iron	ppm	ASTM D5185m	>500	2762	74	---
Chromium	ppm	ASTM D5185m	>10	22	2	---
Aluminum	ppm	ASTM D5185m	>25	43	1	---

Customer Id: AECCHATN
Sample No.: WC0868438
Lab Number: 06074187
Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
Sean Felton +1 919-379-4092
sfelton@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
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

20 Jul 2022 Diag: Don Baldrige

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. Confirm oil type. The condition of the oil is acceptable for the time in service.

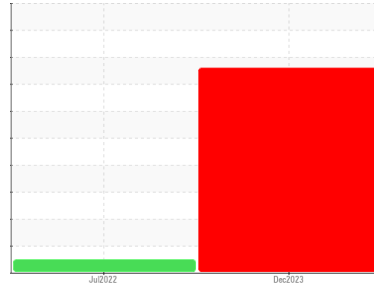
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
040-R0006

Component
Right Final Drive

Fluid
SCHAEFFER SCHAEFFER 293 MOLY 75W90 (--- GAL)

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear

The aluminum level is abnormal. The iron level is severe. The chromium level is abnormal. Gear wear is indicated.

Contamination

The water content is negligible. There is no indication of any contamination in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0868438	WC0698081	---
Sample Date	Client Info		21 Dec 2023	20 Jul 2022	---
Machine Age	hrs	Client Info	6459	2244	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		Not Changed	Not Changed	---
Sample Status			SEVERE	NORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>500	2762	74	---
Chromium	ppm	ASTM D5185m	>10	22	2	---
Nickel	ppm	ASTM D5185m	>10	1	0	---
Titanium	ppm	ASTM D5185m		1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	43	1	---
Lead	ppm	ASTM D5185m	>25	1	<1	---
Copper	ppm	ASTM D5185m	>50	13	2	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
Cadmium	ppm	ASTM D5185m		<1	0	---

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		65	258	---
Barium	ppm	ASTM D5185m		1	24	---
Molybdenum	ppm	ASTM D5185m		2	2	---
Manganese	ppm	ASTM D5185m		18	2	---
Magnesium	ppm	ASTM D5185m		5	<1	---
Calcium	ppm	ASTM D5185m		78	17	---
Phosphorus	ppm	ASTM D5185m		1071	1227	---
Zinc	ppm	ASTM D5185m		74	57	---
Sulfur	ppm	ASTM D5185m		24012	25077	---

CONTAMINANTS

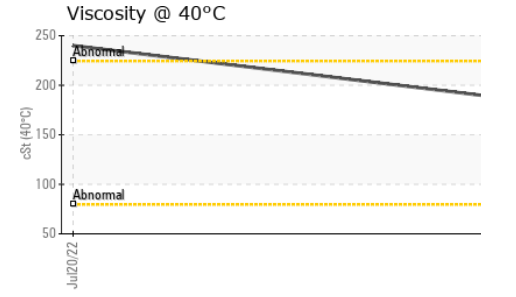
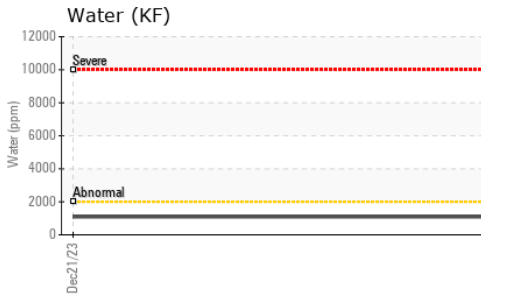
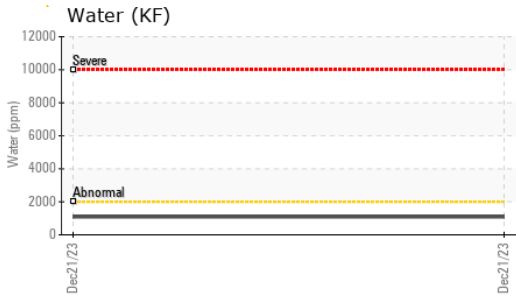
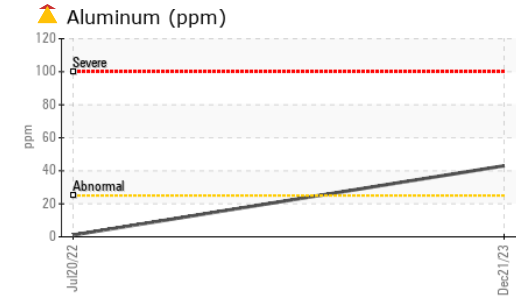
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>75	25	3	---
Sodium	ppm	ASTM D5185m		20	13	---
Potassium	ppm	ASTM D5185m	>20	24	9	---
Water	%	ASTM D6304	>0.2	0.109	---	---
ppm Water	ppm	ASTM D6304	>2000	1090	---	---

VISUAL

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



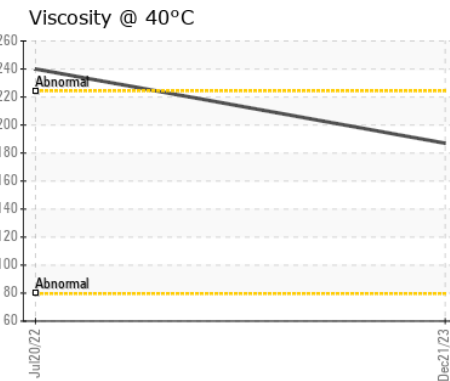
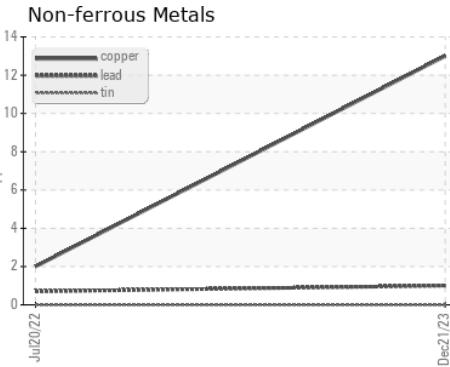
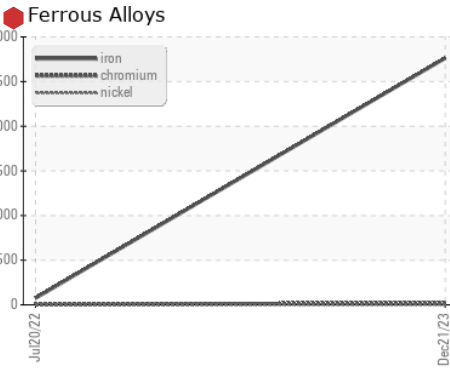
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		187	240	---

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0868438 **Received** : 30 Jan 2024
Lab Number : 06074187 **Diagnosed** : 31 Jan 2024
Unique Number : 10856278 **Diagnostician** : Sean Felton
Test Package : CONST (Additional Tests: KF)

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)

SHIMMICK CONSTRUCTION
 5535 TRAILHEAD DRIVE
 CHATTANOOGA, TN
 US 37415
 Contact: DANIEL LISELLA
 daniel.lisella@shimmick.com

T:
F: