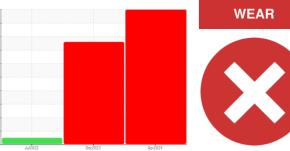


PROBLEM SUMMARY

Sample Rating Trend



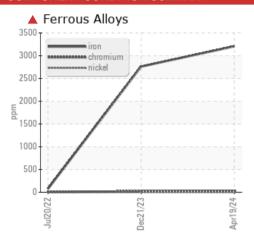
Machine Id

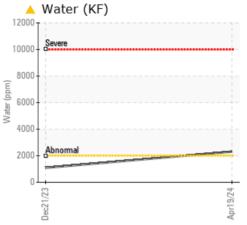
040-R0006

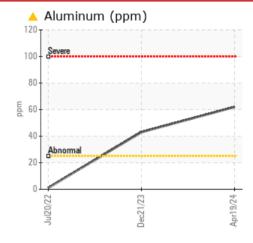
Right Final Drive

SCHAEFFER SCHAEFFER 293 MOLY 75W90 (2 QTS)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC	TEST R	ESULTS				
Sample Status				SEVERE	SEVERE	NORMAL
Iron	ppm	ASTM D5185m	>500	▲ 3206	▲ 2762	74
Chromium	ppm	ASTM D5185m	>10	▲ 32	<u>^</u> 22	2
Aluminum	ppm	ASTM D5185m	>25	<u> </u>	<u>4</u> 3	1
Water	%	ASTM D6304	>0.2	0.231	0.109	
ppm Water	ppm	ASTM D6304	>2000	<u>^</u> 2310	1090	

Customer Id: AECCHATN Sample No.: WC0903846 Lab Number: 06159496 Test Package: CONST



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

HISTORICAL DIAGNOSIS

21 Dec 2023 Diag: Sean Felton

WEAR



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. The aluminum level is abnormal. The iron level is severe. The chromium level is abnormal. Gear wear is indicated. The water content is negligible. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



20 Jul 2022 Diag: Don Baldridge

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.





OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id

040-R0006

Right Final Drive

SCHAEFFER SCHAEFFER 293 MOLY 75W9

DIAGNOSIS

▲ Recommendation

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear

Gear wear is indicated.

Contamination

There is a light concentration of water present in the

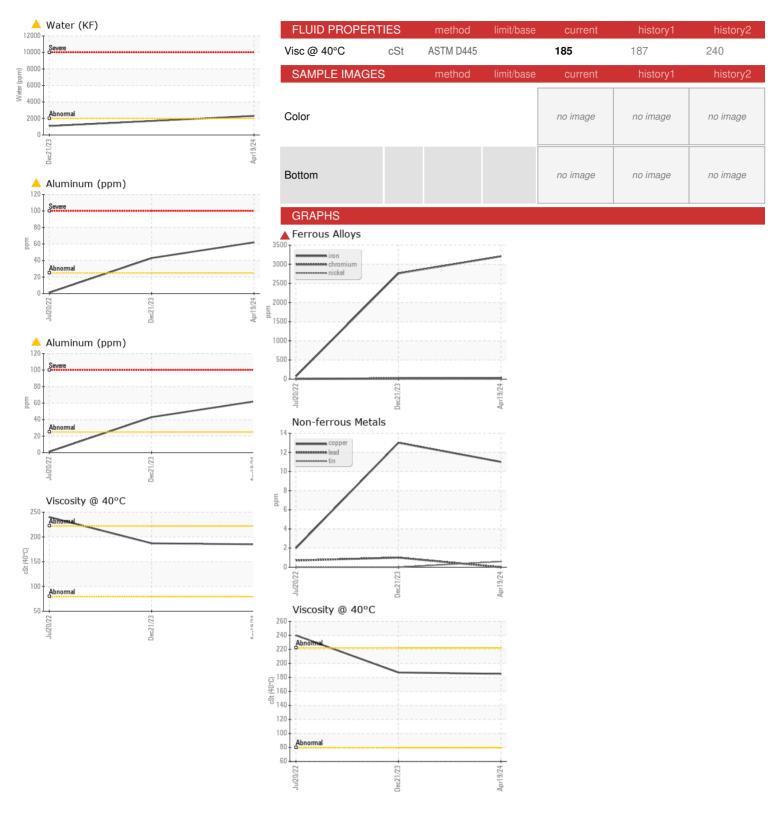
Fluid Condition

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

00 (2 QTS)		Ju	12022	Dec2023 Apr2	024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0903846	WC0868438	WC0698081
Sample Date		Client Info		19 Apr 2024	21 Dec 2023	20 Jul 2022
Machine Age	hrs	Client Info		6945	6459	2244
Oil Age	hrs	Client Info		6631	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				SEVERE	SEVERE	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>500	3206	▲ 2762	74
Chromium	ppm	ASTM D5185m	>10	▲ 32	<u>^</u> 22	2
Nickel	ppm	ASTM D5185m	>10	1	1	0
Fitanium	ppm	ASTM D5185m		1	1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<u>^</u> 62	△ 43	1
_ead	ppm	ASTM D5185m	>25	0	1	<1
Copper	ppm	ASTM D5185m	>50	11	13	2
rin	ppm	ASTM D5185m	>10	<1	0	0
/anadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		99	65	258
Barium	ppm	ASTM D5185m		12	1	24
Nolybdenum	ppm	ASTM D5185m		<1	2	2
Manganese	ppm	ASTM D5185m		23	18	2
Magnesium	ppm	ASTM D5185m		12	5	<1
Calcium	ppm	ASTM D5185m		132	78	17
Phosphorus	ppm	ASTM D5185m		1261	1071	1227
Zinc	ppm	ASTM D5185m		97	74	57
Sulfur	ppm	ASTM D5185m		28725	24012	25077
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	59	25	3
Sodium	ppm	ASTM D5185m		27	20	13
Potassium	ppm	ASTM D5185m	>20	35	24	9
Nater	%	ASTM D6304	>0.2	<u> </u>	0.109	
ppm Water	ppm	ASTM D6304	>2000	2310	1090	
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
100 Traioi	Journal	VIGUAI		IILG	INLO	NLG



OIL ANALYSIS REPORT







Certificate 12367

Laboratory

Sample No. Lab Number : 06159496

: WC0903846 Unique Number : 10994919

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Apr 2024 **Tested** : 25 Apr 2024 Diagnosed

: 26 Apr 2024 - Jonathan Hester

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: