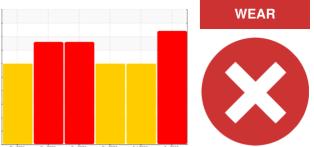


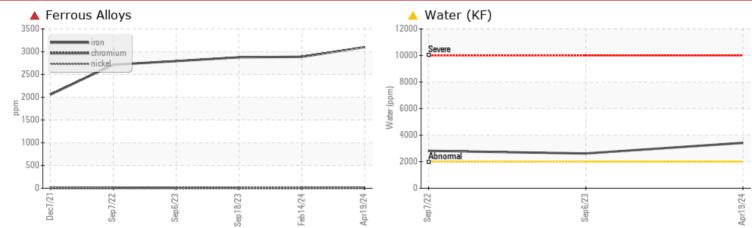
## **PROBLEM SUMMARY**

Sample Rating Trend



Machine Id 016-0114 Component Front Differential Fluid SCHAEFFER SCHAEFFER 293 MOLY 75W90 (2 GAL)

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

We advise that you check for the source of water entry. 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. (Customer Sample Comment: Front differential/axle)

PROBLEMATIC TEST RESULTS						
Sample Status				SEVERE	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>500	<b>A</b> 3100	<b>2888</b>	<b>2</b> 877
Water	%	ASTM D6304	>.2	<b>A</b> 0.342		
ppm Water	ppm	ASTM D6304	>2000	<b>A</b> 3420		

Customer Id: AECCHATN Sample No.: WC0904079 Lab Number: 06159494 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 <u>jhester@wearcheckusa.com</u>

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

RECOMM	ACTIONS
RECUNIN	AGTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source			?	We advise that you insp
Resample			?	We recommend an early
Check Water Access			?	We advise that you chee

pect for the source(s) of wear.

ly resample to monitor this condition.

eck for the source of water entry.

### HISTORICAL DIAGNOSIS



### 14 Feb 2024 Diag: Don Baldridge

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. Gear wear is indicated. 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.





WEAR

### 18 Sep 2023 Diag: Sean Felton

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. Gear wear is indicated. 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.



#### 06 Sep 2023 Diag: Don Baldridge



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. Gear wear is indicated. There is a light concentration of water present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



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## **OIL ANALYSIS REPORT**

Sample Rating Trend

# 

Machine Id

### 016-0114

Component Front Differential

Fluid SCHAEFFER SCHAEFFER 293 MOLY 75W90 (2 GAL)

### DIAGNOSIS

### Recommendation

We advise that you check for the source of water entry. 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. ( Customer Sample Comment: Front differential/axle )

### 🔺 Wear

Gear wear is indicated.

### Contamination

Appearance is hazy. There is a moderate concentration of water present in the oil.

### Fluid Condition

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

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0904079	WC0904077	WC0815202
Sample Date		Client Info		19 Apr 2024	14 Feb 2024	18 Sep 2023
Machine Age	hrs	Client Info		12677	12374	11460
Oil Age	hrs	Client Info		12553	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				SEVERE	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	<b>4</b> 3100	<b>2</b> 888	<b>2</b> 877
Chromium	ppm	ASTM D5185m	>10	8	8	8
Nickel	ppm	ASTM D5185m	>10	<1	<1	2
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	4	2	4
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	<1	3	3
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		100	83	102
Barium	ppm	ASTM D5185m		7	7	8
Molybdenum	ppm	ASTM D5185m		391	362	349
Manganese	ppm	ASTM D5185m		27	26	28
Magnesium	ppm	ASTM D5185m		4	3	2
Calcium	ppm	ASTM D5185m		176	114	111
Phosphorus	ppm	ASTM D5185m		1418	1376	1323
Zinc	ppm	ASTM D5185m		58	36	46
Sulfur	ppm	ASTM D5185m		24730	21559	23032
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	25	24	24
Sodium	ppm	ASTM D5185m		4	4	2
Potassium	ppm	ASTM D5185m	>20	<1	0	2
Water	%	ASTM D6304		<b>A</b> 0.342		
ppm Water	ppm	ASTM D6304	>2000	<b>A</b> 3420		
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	MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance				114 71/	NODM	NORML
Appearance	scalar	*Visual	NORML	e HAZY	NORML	NORIVIL
Odor	scalar scalar	*Visual *Visual	NORML	NORML	NORML	NORML
				-		

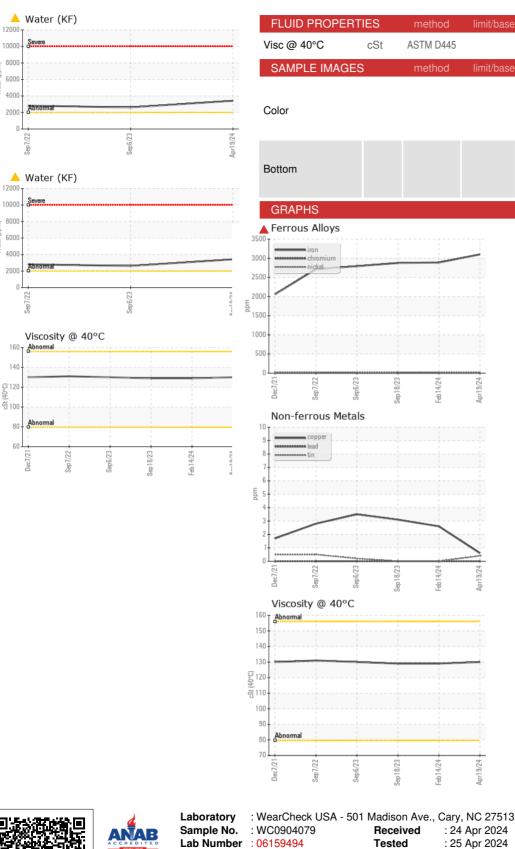


Water (ppm)

(maa)

Water

## **OIL ANALYSIS REPORT**



Feb14/24 Apr19/24 Feb 14/24 Feb 14/24 Apr19/24 SHIMMICK CONSTRUCTION : 24 Apr 2024 5535 TRAILHEAD DRIVE Tested : 25 Apr 2024 CHATTANOOGA, TN Diagnosed : 26 Apr 2024 - Jonathan Hester US 37415 Test Package : CONST (Additional Tests: KF) Contact: DANIEL LISELLA daniel.lisella@shimmick.com

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no image

no image

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.

Unique Number : 10994917

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: AECCHATN [WUSCAR] 06159494 (Generated: 04/26/2024 11:25:29) Rev: 1

Certificate 12367

Submitted By: TECH TECHNICIAN

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