



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

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

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

Gear wear is indicated.

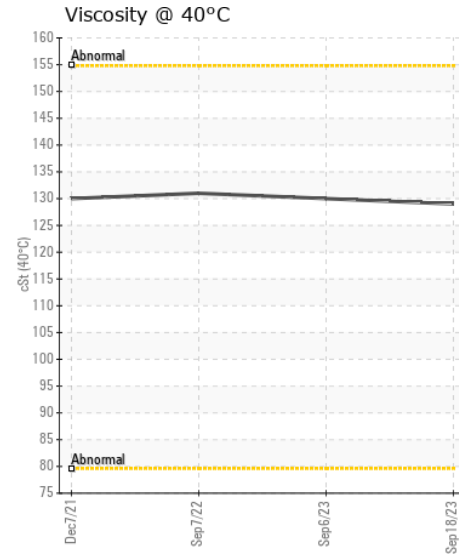
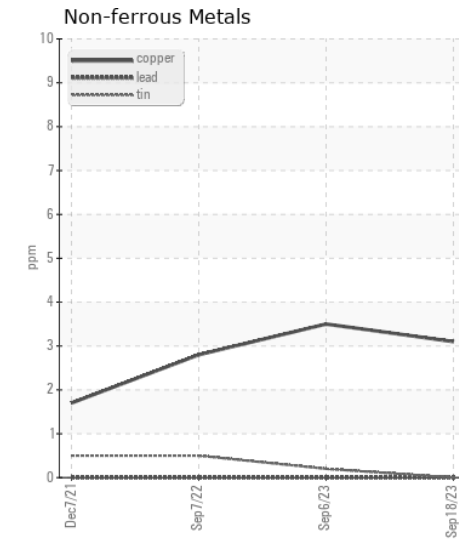
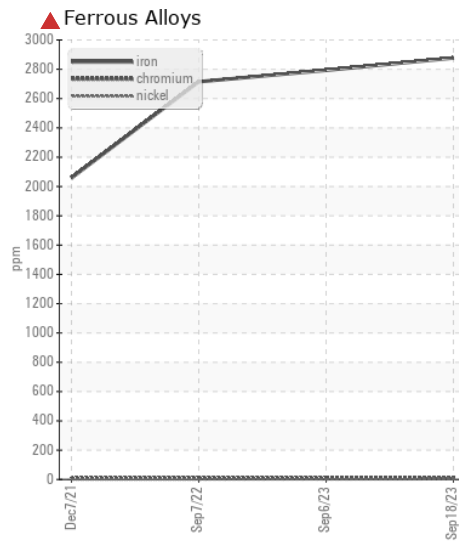
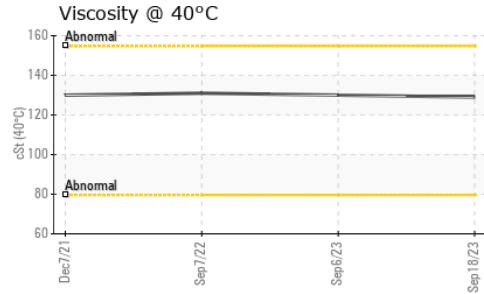
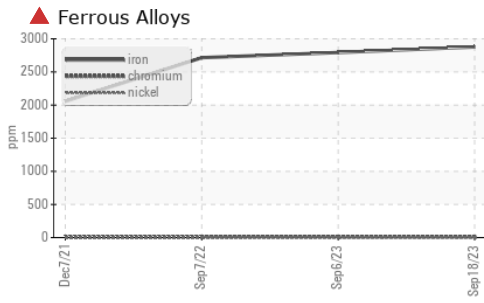
CONTAMINATION

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0815202	WC0815124	WC0698193
Sample Date		Client Info		18 Sep 2023	06 Sep 2023	07 Sep 2022
Machine Age	hrs	Client Info		11460	11388	8347
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				SEVERE	SEVERE	SEVERE
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Iron	ppm	ASTM D5185m	>500	▲ 2877	▲ 2793	▲ 2715
Chromium	ppm	ASTM D5185m	>10	8	8	8
Nickel	ppm	ASTM D5185m	>10	2	1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	4	4	3
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	3	4	3
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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Silicon	ppm	ASTM D5185m	>75	24	24	23
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water		WC Method	>.2	NEG	NEG	NEG
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	>.2	NEG	0.2%	0.2%
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Sodium	ppm	ASTM D5185m		2	5	3
Boron	ppm	ASTM D5185m		102	109	128
Barium	ppm	ASTM D5185m		8	6	<1
Molybdenum	ppm	ASTM D5185m		349	337	278
Manganese	ppm	ASTM D5185m		28	26	26
Magnesium	ppm	ASTM D5185m		2	4	0
Calcium	ppm	ASTM D5185m		111	122	106
Phosphorus	ppm	ASTM D5185m		1323	1398	1433
Zinc	ppm	ASTM D5185m		46	63	49
Sulfur	ppm	ASTM D5185m		23032	24244	20442
Visc @ 40°C	cSt	ASTM D445		129	130	131



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0815202
Lab Number : 05960827
Unique Number : 10662040
Test Package : CONST

Received : 25 Sep 2023
Tested : 27 Sep 2023
Diagnosed : 27 Sep 2023 - Sean Felton

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

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