



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	MARGINAL
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.

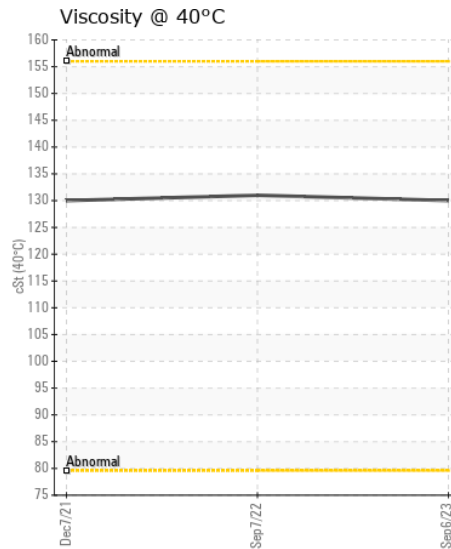
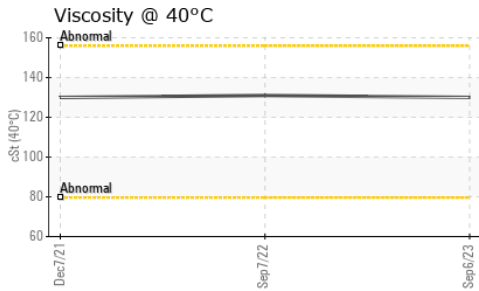
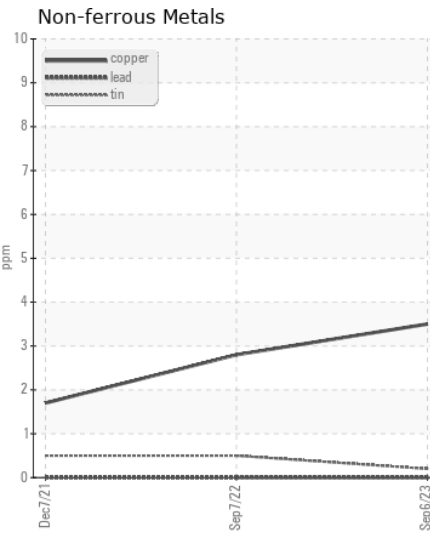
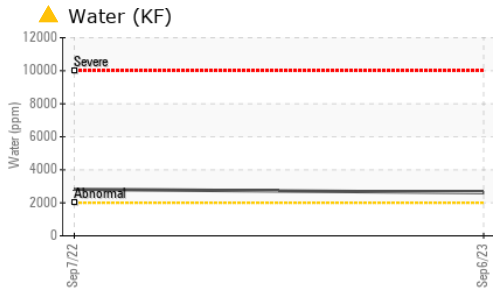
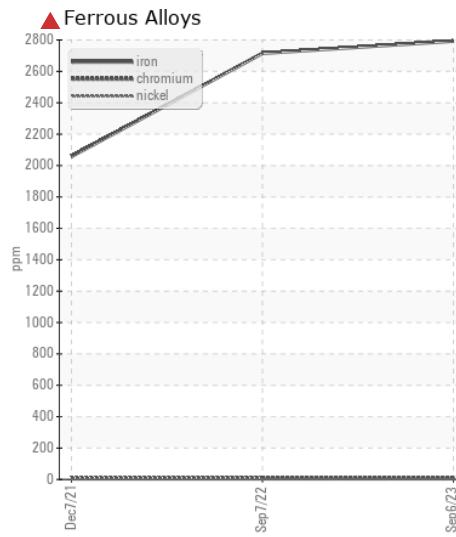
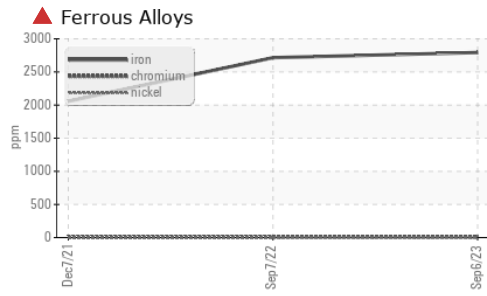
CONTAMINATION

There is a light 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0815124	WC0698193	WC0548356
Sample Date		Client Info		06 Sep 2023	07 Sep 2022	07 Dec 2021
Machine Age	hrs	Client Info		11388	8347	6419
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Filter Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				SEVERE	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>500	▲ 2793	▲ 2715	▲ 2058
Chromium	ppm	ASTM D5185m	>10	8	8	6
Nickel	ppm	ASTM D5185m	>10	1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	4	3	2
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	4	3	2
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	LIGHT	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	24	23	18
Potassium	ppm	ASTM D5185m	>20	2	0	<1
Water	%	ASTM D6304	>.2	▲ 0.262	▲ 0.282	---
ppm Water	ppm	ASTM D6304	>2000	▲ 2620	▲ 2820	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
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	0.2%	0.2%	NEG
Sodium	ppm	ASTM D5185m		5	3	4
Boron	ppm	ASTM D5185m		109	128	110
Barium	ppm	ASTM D5185m		6	<1	0
Molybdenum	ppm	ASTM D5185m		337	278	220
Manganese	ppm	ASTM D5185m		26	26	21
Magnesium	ppm	ASTM D5185m		4	0	2
Calcium	ppm	ASTM D5185m		122	106	102
Phosphorus	ppm	ASTM D5185m		1398	1433	1608
Zinc	ppm	ASTM D5185m		63	49	50
Sulfur	ppm	ASTM D5185m		24244	20442	19306
Visc @ 40°C	cSt	ASTM D445		130	131	130



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0815124 **Received** : 12 Sep 2023
Lab Number : 05949549 **Tested** : 14 Sep 2023
Unique Number : 10645508 **Diagnosed** : 15 Sep 2023 - Don Baldrige
Test Package : CONST (Additional Tests: KF)

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)

T:
F: