



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**12102**  
 Component  
**Differential**  
 Fluid  
**GEAR OIL SAE 75W90 (--- QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0913615</b>	WC0846669	WC0786632
Sample Date		Client Info		<b>23 May 2024</b>	26 Sep 2023	15 Mar 2023
Machine Age	mls	Client Info		<b>52496</b>	29305	7343
Oil Age	mls	Client Info		<b>0</b>	0	0
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>343</b>	329	211
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	2	<1
Nickel	ppm	ASTM D5185m	>10	<b>17</b>	16	7
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	<1	1
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>100	<b>4</b>	2	1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

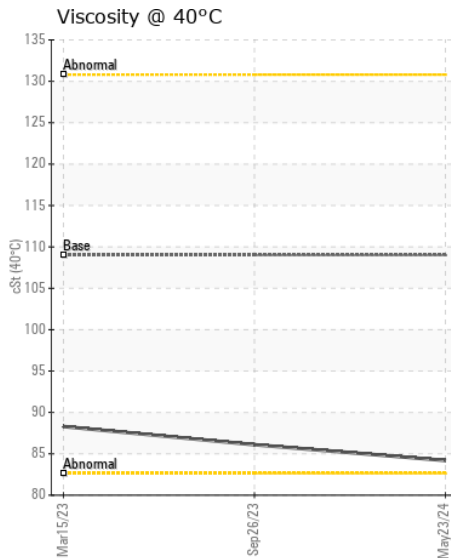
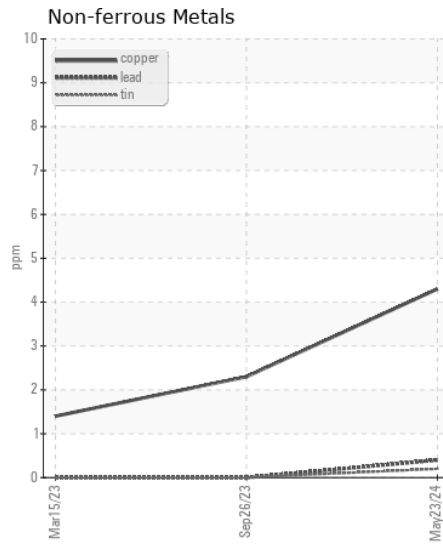
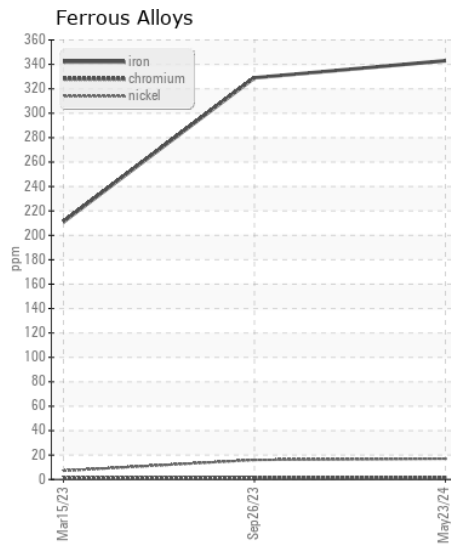
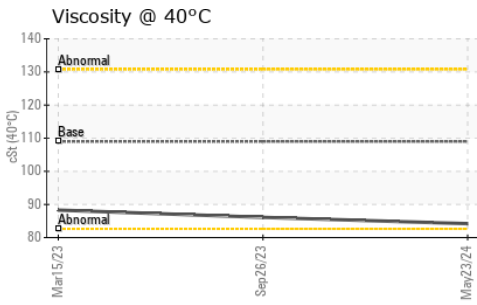
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>71</b>	▲ 80	68
Potassium	ppm	ASTM D5185m	>20	<b>7</b>	7	5
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>35</b>	37	28
Boron	ppm	ASTM D5185m	400	<b>58</b>	69	110
Barium	ppm	ASTM D5185m	200	<b>2</b>	4	2
Molybdenum	ppm	ASTM D5185m	12	<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>12</b>	13	11
Magnesium	ppm	ASTM D5185m	12	<b>60</b>	44	13
Calcium	ppm	ASTM D5185m	150	<b>23</b>	78	26
Phosphorus	ppm	ASTM D5185m	1650	<b>1860</b>	1690	1675
Zinc	ppm	ASTM D5185m	125	<b>126</b>	138	89
Sulfur	ppm	ASTM D5185m	22500	<b>25470</b>	24362	23395
Visc @ 40°C	cSt	ASTM D445	109	<b>84.2</b>	86.1	88.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0913615      **Received** : 30 May 2024  
**Lab Number** : 06196064      **Tested** : 03 Jun 2024  
**Unique Number** : 11058187      **Diagnosed** : 03 Jun 2024 - Sean Felton  
**Test Package** : CONST

**SULLIVAN EASTERN INC**  
 2860 C SLATER RD  
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 US 27560

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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)