



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
12366
Component
Rear Differential
Fluid
GEAR OIL SAE 75W90 (--- QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

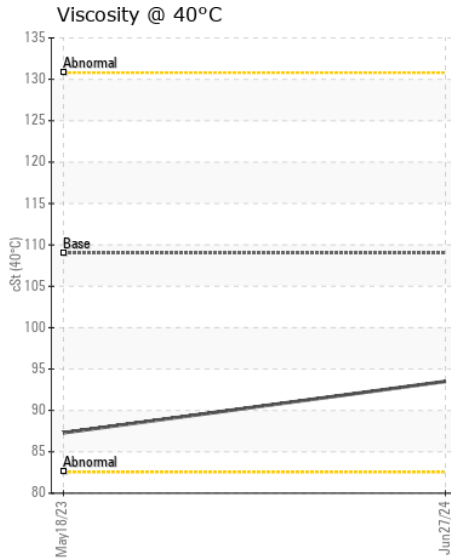
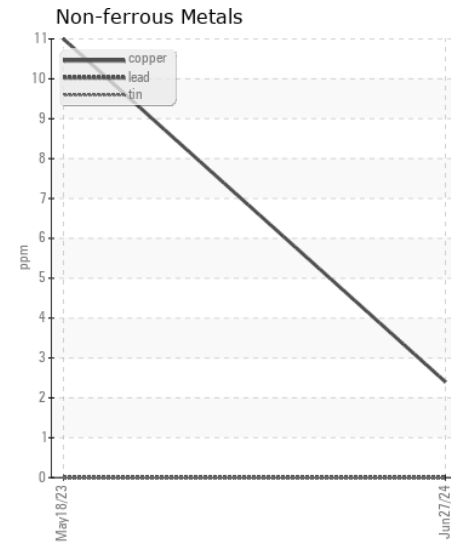
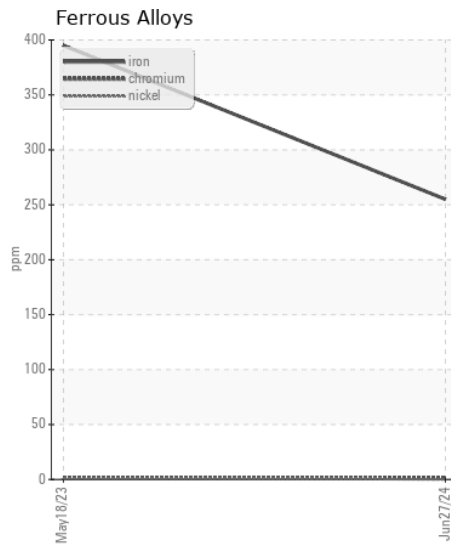
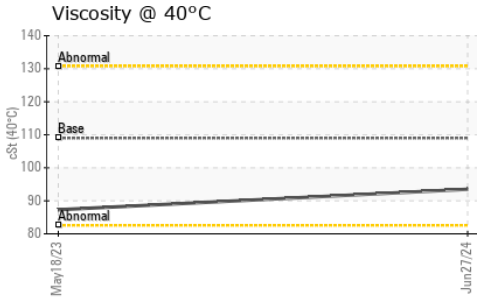
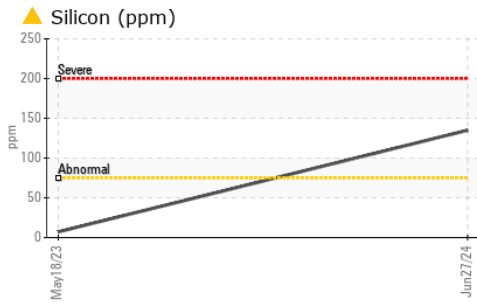
CONTAMINATION

Elemental level of silicon (Si) above normal.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0950776	WC0810052	---
Sample Date		Client Info		27 Jun 2024	18 May 2023	---
Machine Age	mls	Client Info		100910	70382	---
Oil Age	mls	Client Info		0	0	---
Filter Age	mls	Client Info		0	0	---
Oil Changed		Client Info		Not Changed	Changed	---
Filter Changed		Client Info		Not Changed	Changed	---
Sample Status				ABNORMAL	NORMAL	---
<hr/>						
Iron	ppm	ASTM D5185m	>500	255	395	---
Chromium	ppm	ASTM D5185m	>10	1	1	---
Nickel	ppm	ASTM D5185m	>10	0	1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	2	<1	---
Lead	ppm	ASTM D5185m	>25	0	0	---
Copper	ppm	ASTM D5185m	>100	2	11	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
<hr/>						
Silicon	ppm	ASTM D5185m	>75	▲ 135	7	---
Potassium	ppm	ASTM D5185m	>20	3	6	---
Water		WC Method	>.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	---
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Sodium	ppm	ASTM D5185m		35	70	---
Boron	ppm	ASTM D5185m	400	106	51	---
Barium	ppm	ASTM D5185m	200	2	0	---
Molybdenum	ppm	ASTM D5185m	12	<1	<1	---
Manganese	ppm	ASTM D5185m		26	56	---
Magnesium	ppm	ASTM D5185m	12	2	1	---
Calcium	ppm	ASTM D5185m	150	19	30	---
Phosphorus	ppm	ASTM D5185m	1650	1290	1918	---
Zinc	ppm	ASTM D5185m	125	47	59	---
Sulfur	ppm	ASTM D5185m	22500	28367	25056	---
Visc @ 40°C	cSt	ASTM D445	109	93.5	87.3	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0950776
Lab Number : 06227931
Unique Number : 11111424
Test Package : CONST

Received : 03 Jul 2024
Tested : 05 Jul 2024
Diagnosed : 07 Jul 2024 - Don Baldrige

SULLIVAN EASTERN INC
 2860 C SLATER RD
 MORRISVILLE, NC
 US 27560

Contact: SCOTT SULLIVAN
 ssullivan@sullivan-eastern.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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