



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
31264
 Component
Right Final Drive
 Fluid
GEAR OIL SAE 80W90 (--- QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Oil and filter 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.

WEAR

Gear wear is indicated.

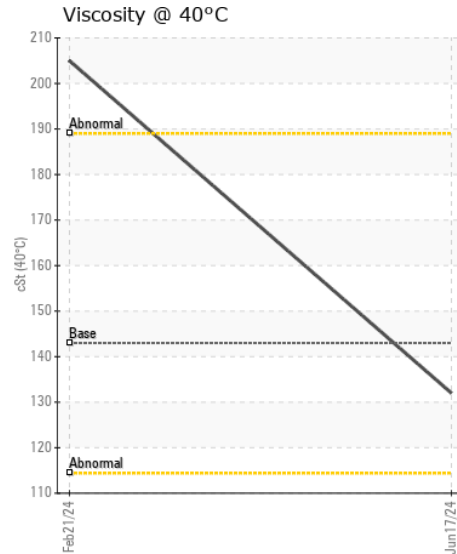
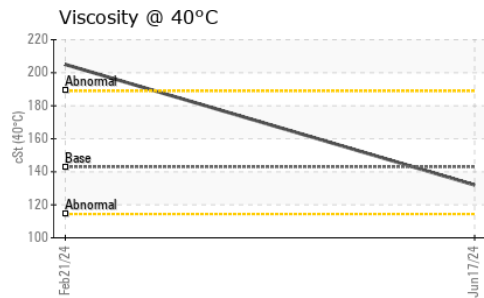
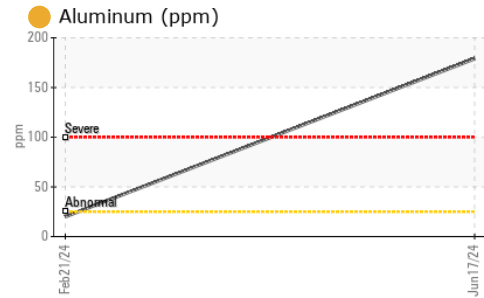
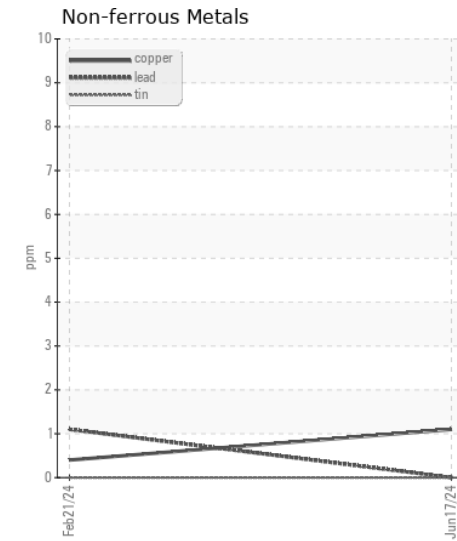
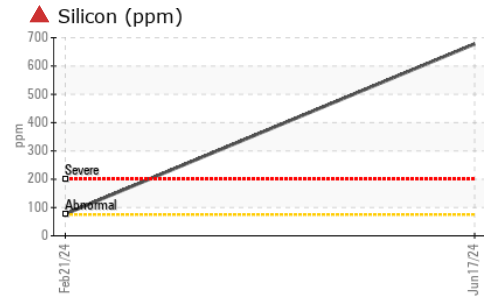
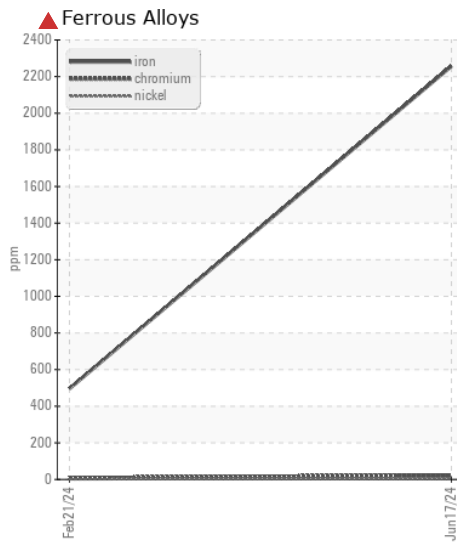
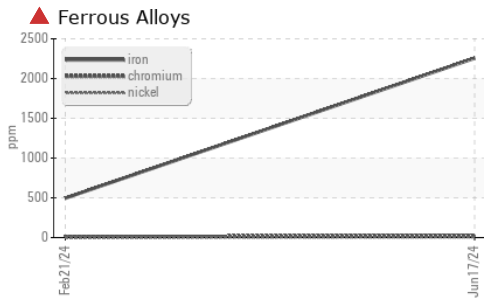
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0950774	WC0905385	---
Sample Date		Client Info		17 Jun 2024	21 Feb 2024	---
Machine Age	hrs	Client Info		1232	689	---
Oil Age	hrs	Client Info		1000	500	---
Filter Age	hrs	Client Info		1000	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				SEVERE	ABNORMAL	---
<hr/>						
Iron	ppm	ASTM D5185m	>500	▲ 2257	496	---
Chromium	ppm	ASTM D5185m	>10	▲ 24	9	---
Nickel	ppm	ASTM D5185m	>10	5	<1	---
Titanium	ppm	ASTM D5185m		11	2	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	● 179	● 20	---
Lead	ppm	ASTM D5185m	>25	0	1	---
Copper	ppm	ASTM D5185m	>50	1	<1	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
<hr/>						
Silicon	ppm	ASTM D5185m	>75	▲ 678	▲ 77	---
Potassium	ppm	ASTM D5185m	>20	38	7	---
Water		WC Method	>0.2	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	>0.2	NEG	NEG	---
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Sodium	ppm	ASTM D5185m	>170	13	7	---
Boron	ppm	ASTM D5185m	400	93	2	---
Barium	ppm	ASTM D5185m	200	3	8	---
Molybdenum	ppm	ASTM D5185m	12	10	0	---
Manganese	ppm	ASTM D5185m		19	7	---
Magnesium	ppm	ASTM D5185m	12	46	<1	---
Calcium	ppm	ASTM D5185m	150	115	16	---
Phosphorus	ppm	ASTM D5185m	1650	1246	1129	---
Zinc	ppm	ASTM D5185m	125	121	21	---
Sulfur	ppm	ASTM D5185m	22500	22134	23364	---
Visc @ 40°C	cSt	ASTM D445	143	132	205	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0950774
Lab Number : 06215046
Unique Number : 11087910
Test Package : CONST

Received : 19 Jun 2024
Tested : 20 Jun 2024
Diagnosed : 21 Jun 2024 - Sean Felton

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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