



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
C220E310859
 Component
Right Final Drive
 Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

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

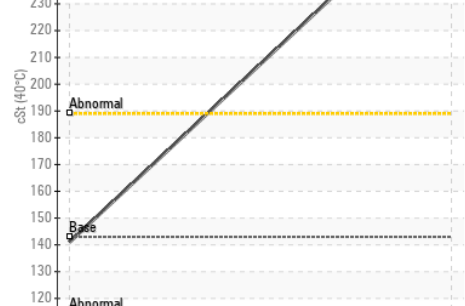
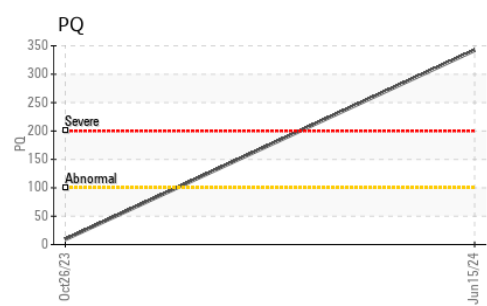
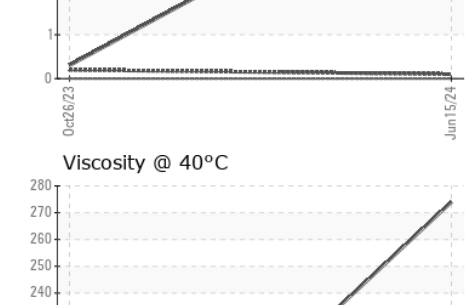
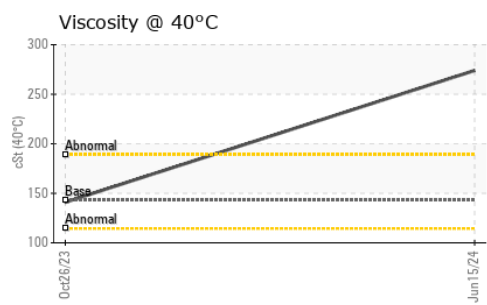
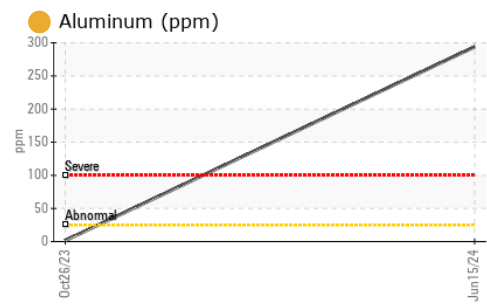
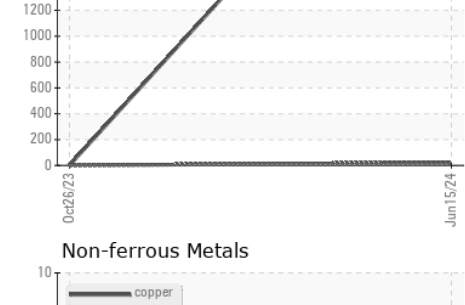
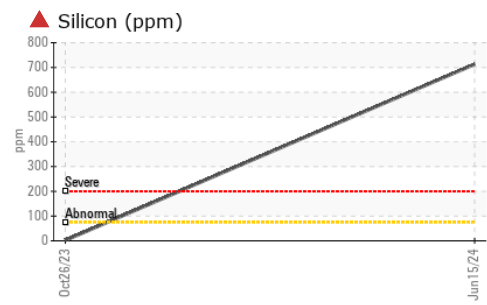
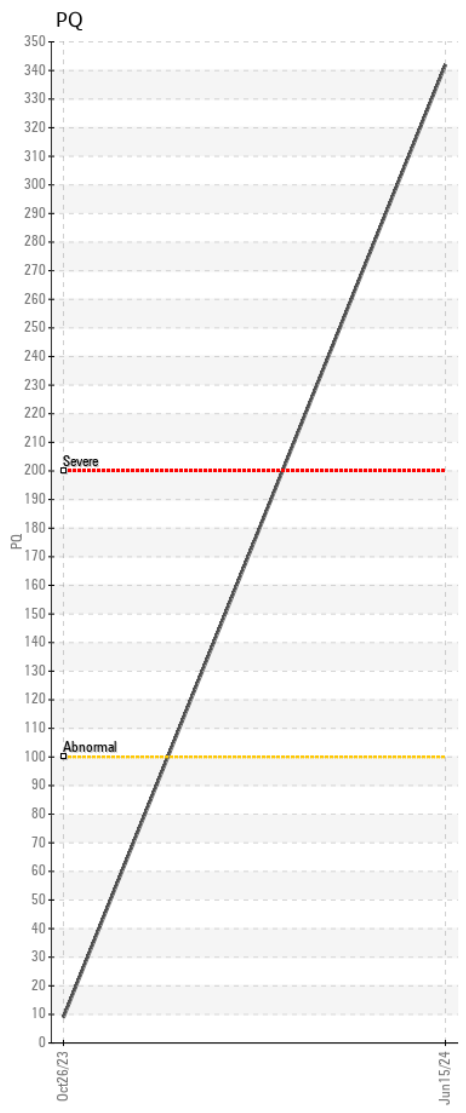
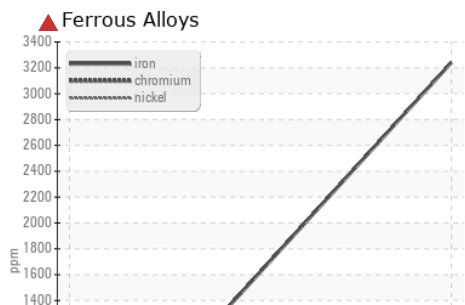
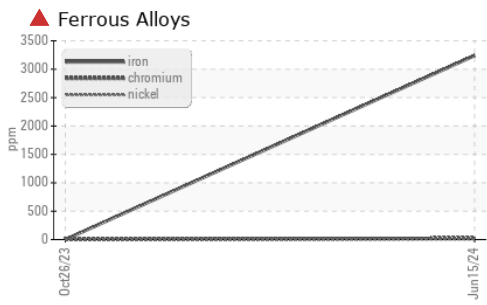
CONTAMINATION

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		JR0220235	JR0188102	---
Sample Date		Client Info		15 Jun 2024	26 Oct 2023	---
Machine Age	hrs	Client Info		5587	5080	---
Oil Age	hrs	Client Info		5587	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		N/A	Not Changd	---
Sample Status				SEVERE	NORMAL	---
PQ		ASTM D8184		342	9	---
Iron	ppm	ASTM D5185m	>500	▲ 3241	<1	---
Chromium	ppm	ASTM D5185m	>10	▲ 23	<1	---
Nickel	ppm	ASTM D5185m	>10	▲ 5	<1	---
Titanium	ppm	ASTM D5185m		17	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	● 294	2	---
Lead	ppm	ASTM D5185m	>25	<1	<1	---
Copper	ppm	ASTM D5185m	>50	5	<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	---
Silicon	ppm	ASTM D5185m	>75	▲ 713	2	---
Potassium	ppm	ASTM D5185m	>20	59	1	---
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	---
Sodium	ppm	ASTM D5185m	>170	8	0	---
Boron	ppm	ASTM D5185m	400	196	0	---
Barium	ppm	ASTM D5185m	200	<1	4	---
Molybdenum	ppm	ASTM D5185m	12	2	<1	---
Manganese	ppm	ASTM D5185m		23	0	---
Magnesium	ppm	ASTM D5185m	12	22	1	---
Calcium	ppm	ASTM D5185m	150	15	3	---
Phosphorus	ppm	ASTM D5185m	1650	1113	352	---
Zinc	ppm	ASTM D5185m	125	13	0	---
Sulfur	ppm	ASTM D5185m	22500	27440	22390	---
Visc @ 40°C	cSt	ASTM D445	143	274	141	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0220235 **Received** : 18 Jun 2024
Lab Number : 06213802 **Tested** : 20 Jun 2024
Unique Number : 11086666 **Diagnosed** : 20 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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Certificate L2367
 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)