



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	ATTENTION

Machine Id
C220E310190
 Component
Left Final Drive
 Fluid
SAE 80W90 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. 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

The iron and chrome levels are severe. Gear wear is indicated.

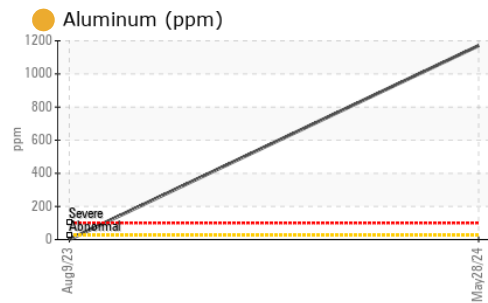
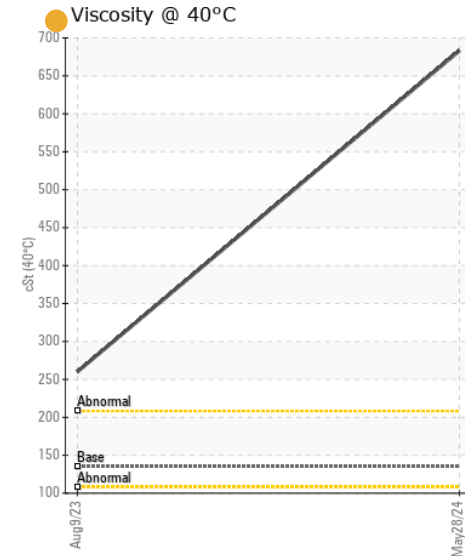
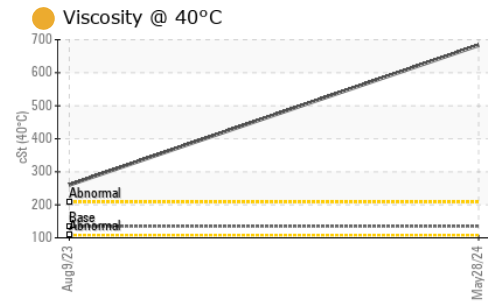
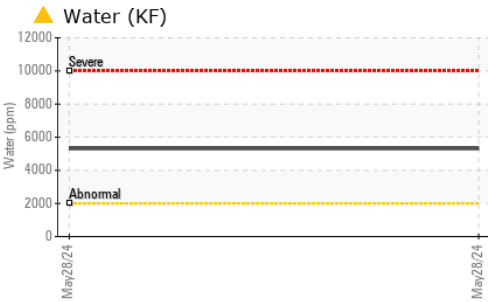
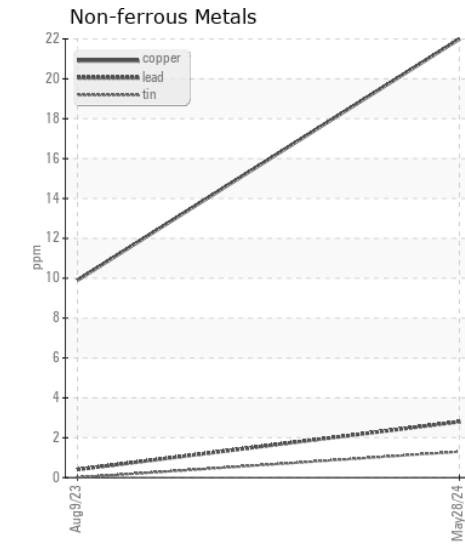
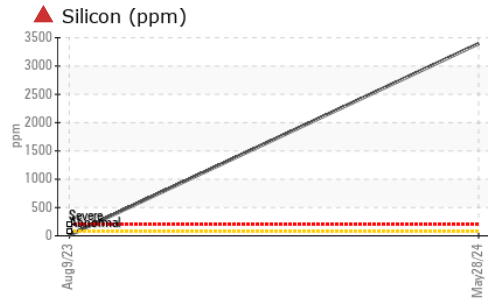
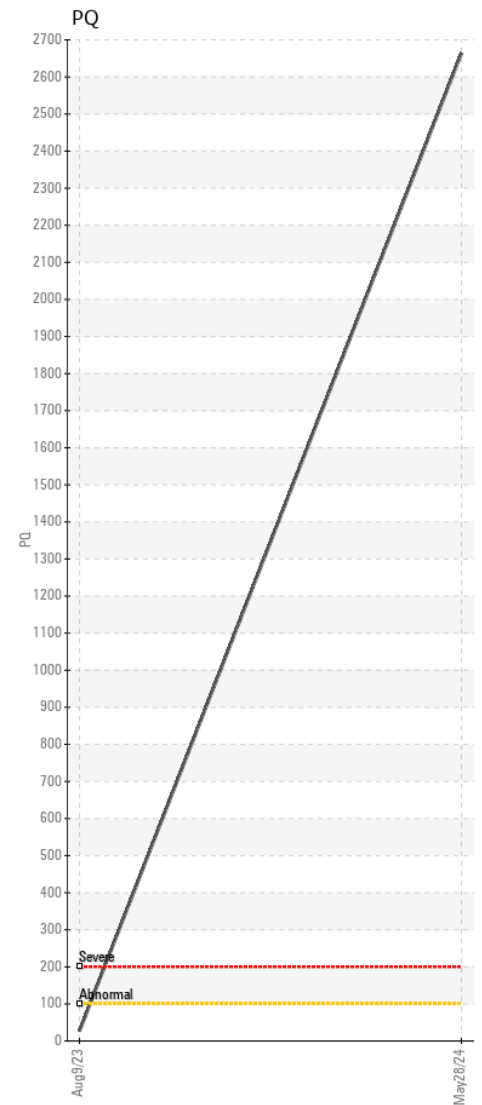
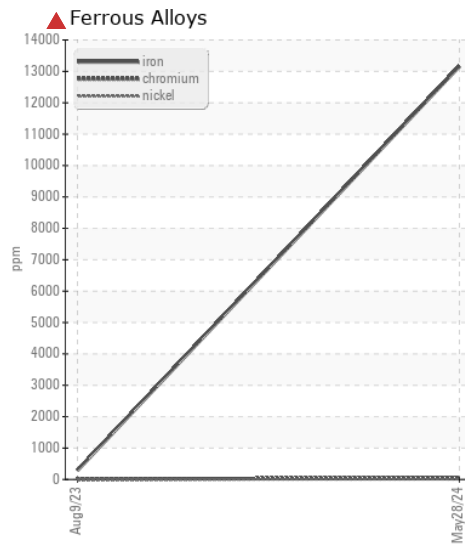
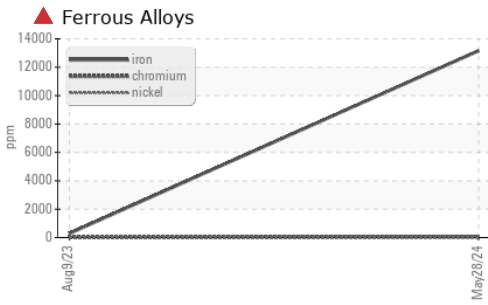
CONTAMINATION

There is a moderate concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0216010	JR0177444	---
Sample Date		Client Info		28 May 2024	09 Aug 2023	---
Machine Age	hrs	Client Info		7482	7482	---
Oil Age	hrs	Client Info		7482	7482	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	Not Changd	---
Filter Changed		Client Info		N/A	Not Changd	---
Sample Status				SEVERE	NORMAL	---
PQ		ASTM D8184		2664	27	---
Iron	ppm	ASTM D5185m	>500	▲ 13161	288	---
Chromium	ppm	ASTM D5185m	>10	▲ 55	2	---
Nickel	ppm	ASTM D5185m	>10	5	0	---
Titanium	ppm	ASTM D5185m		155	<1	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>25	● 1171	0	---
Lead	ppm	ASTM D5185m	>25	3	<1	---
Copper	ppm	ASTM D5185m	>50	22	10	---
Tin	ppm	ASTM D5185m	>10	1	0	---
Vanadium	ppm	ASTM D5185m		4	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>75	▲ 3396	8	---
Potassium	ppm	ASTM D5185m	>20	156	<1	---
Water	%	ASTM D6304	>0.2	▲ 0.531	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 5310	---	---
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	▲ 0.2%	NEG	---
Sodium	ppm	ASTM D5185m	>50	87	0	---
Boron	ppm	ASTM D5185m		163	180	---
Barium	ppm	ASTM D5185m		6	2	---
Molybdenum	ppm	ASTM D5185m		7	<1	---
Manganese	ppm	ASTM D5185m		69	3	---
Magnesium	ppm	ASTM D5185m		126	<1	---
Calcium	ppm	ASTM D5185m		197	19	---
Phosphorus	ppm	ASTM D5185m		926	1159	---
Zinc	ppm	ASTM D5185m		26	18	---
Sulfur	ppm	ASTM D5185m		42760	29781	---
Visc @ 40°C	cSt	ASTM D445	135	● 683	260	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0216010 **Received** : 29 May 2024
Lab Number : 06194269 **Tested** : 31 May 2024
Unique Number : 11056392 **Diagnosed** : 31 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

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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)