OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
CR5503 - OUTER
Component
Rear Right Planetary
Fluid
GEAR OIL ISO 220 (--- GAL)

RECOMMENDATION

The oil 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

The copper and lead levels are severe. Bearing and/or bushing wear is indicated. High concentration of visible yellow metal present.

CONTAMINATION

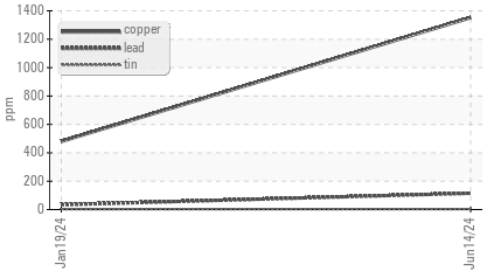
There is no indication of any contamination in the oil.

FLUID CONDITION

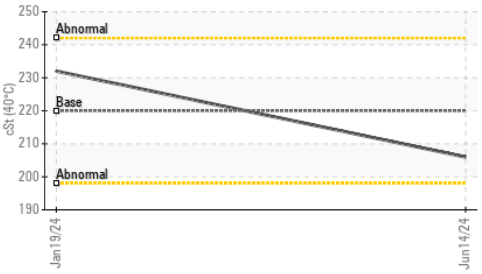
The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0952099	WC0877399	---
Sample Date		Client Info		14 Jun 2024	19 Jan 2024	---
Machine Age	hrs	Client Info		10882	10142	---
Oil Age	hrs	Client Info		740	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Not Changd	Changed	---
Sample Status				SEVERE	SEVERE	---
Iron	ppm	ASTM D5185m	>500	375	22	---
Chromium	ppm	ASTM D5185m	>10	3	0	---
Nickel	ppm	ASTM D5185m	>10	2	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		<1	0	---
Aluminum	ppm	ASTM D5185m	>25	1	0	---
Lead	ppm	ASTM D5185m	>25	▲ 115	▲ 34	---
Copper	ppm	ASTM D5185m	>75	▲ 1352	▲ 480	---
Tin	ppm	ASTM D5185m	>10	3	3	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	MODER	---
Yellow Metal	scalar	*Visual	NONE	▲ HEAVY	NONE	---
Silicon	ppm	ASTM D5185m	>75	9	2	---
Potassium	ppm	ASTM D5185m	>20	2	0	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	MODER	---
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		<1	0	---
Boron	ppm	ASTM D5185m	50	12	11	---
Barium	ppm	ASTM D5185m	15	0	0	---
Molybdenum	ppm	ASTM D5185m	15	<1	<1	---
Manganese	ppm	ASTM D5185m		4	<1	---
Magnesium	ppm	ASTM D5185m	50	2	0	---
Calcium	ppm	ASTM D5185m	50	279	0	---
Phosphorus	ppm	ASTM D5185m	350	368	325	---
Zinc	ppm	ASTM D5185m	100	1334	449	---
Sulfur	ppm	ASTM D5185m	12500	4587	4946	---
Visc @ 40°C	cSt	ASTM D445	220	206	232	---

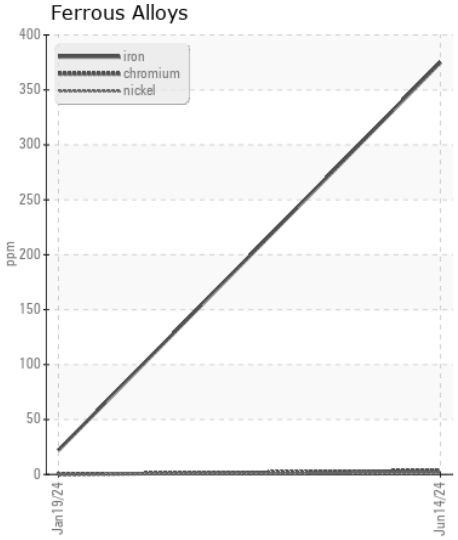
Non-ferrous Metals



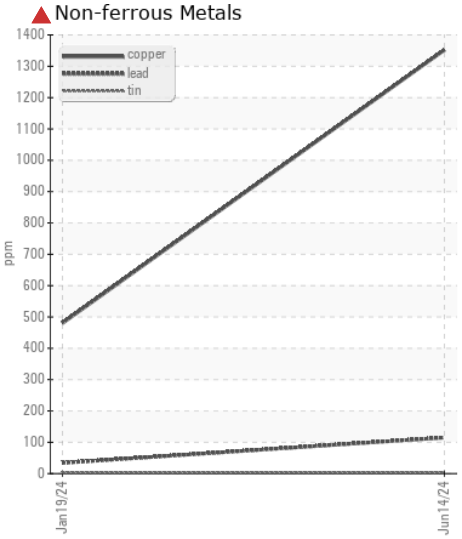
Viscosity @ 40°C



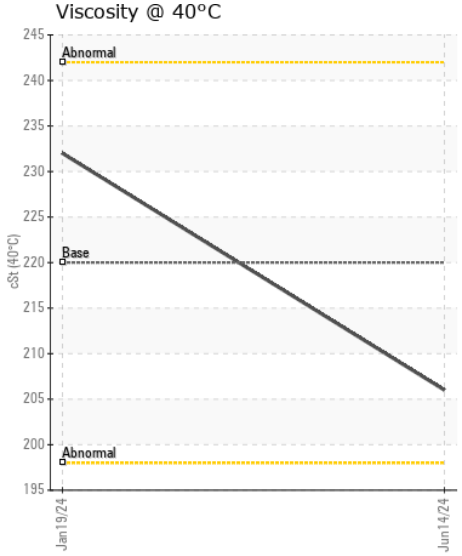
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0952099
Lab Number : 06218967
Unique Number : 11097164
Test Package : CONST

Received : 24 Jun 2024
Tested : 26 Jun 2024
Diagnosed : 26 Jun 2024 - Don Baldridge

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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