



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**KAWASAKI 90ZV F-62 (S/N 90C4-5231)**

Component  
**Rear Differential**

Fluid  
**CHEVRON 1000 THF (13 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0879500</b>	WC0833564	WC0709478
Sample Date		Client Info		<b>29 Jan 2024</b>	16 Aug 2023	12 Dec 2022
Machine Age	hrs	Client Info		<b>41074</b>	40116	38540
Oil Age	hrs	Client Info		<b>958</b>	1516	2318
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>13</b>	12	9
Chromium	ppm	ASTM D5185m	>10	<b>6</b>	8	5
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	1	<1
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>100	<b>2</b>	4	4
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

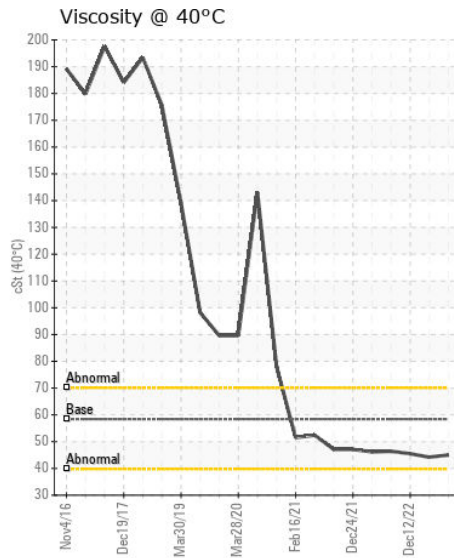
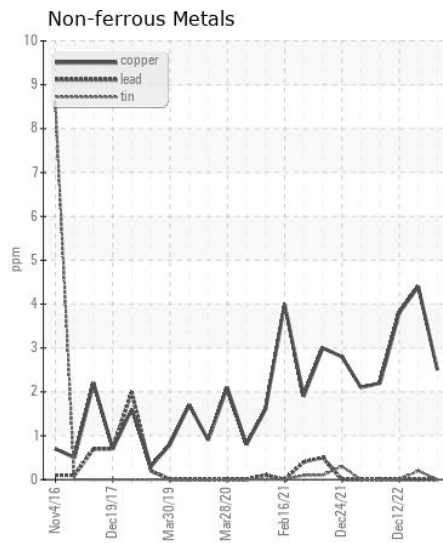
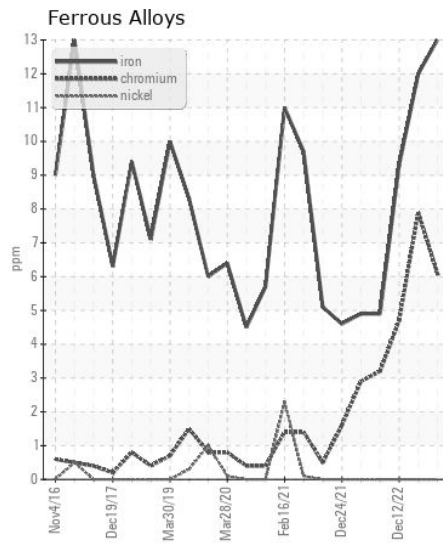
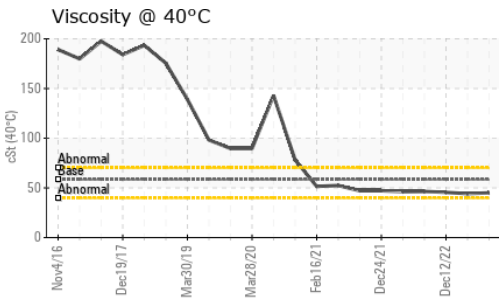
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>3</b>	4	3
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	1
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>0</b>	1	0
Boron	ppm	ASTM D5185m	10	<b>12</b>	21	13
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	20	<b>6</b>	7	6
Calcium	ppm	ASTM D5185m	3200	<b>704</b>	1045	1095
Phosphorus	ppm	ASTM D5185m	1100	<b>490</b>	556	566
Zinc	ppm	ASTM D5185m	1400	<b>618</b>	706	727
Sulfur	ppm	ASTM D5185m	3600	<b>1955</b>	1885	2181
Visc @ 40°C	cSt	ASTM D445	58.4	<b>45.0</b>	44.2	45.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0879500 **Received** : 31 Jan 2024  
**Lab Number** : **06076155** **Diagnosed** : 02 Feb 2024  
**Unique Number** : 10858246 **Diagnostician** : Sean Felton  
**Test Package** : CONST

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)

**FRANKLIN IRON & METAL CORP**  
 1939 EAST 1ST ST  
 DAYTON, OH  
 US 45403  
 Contact: BILL PITTL JR  
 parts@frankliniron.com  
 T: (937)253-8184  
 F: