



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**HITACHI ZX135 4004 (S/N 100035)**  
Component  
**Right Final Drive**  
Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>CL0005567</b>	CL0003949	CL0002294
Sample Date		Client Info		<b>15 Jun 2024</b>	22 Jan 2023	11 Jul 2021
Machine Age	hrs	Client Info		<b>6575</b>	6035	5040
Oil Age	hrs	Client Info		<b>540</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Chngd</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>117</b>	409	152
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	3	2
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	1
Titanium	ppm	ASTM D5185m		<b>1</b>	3	3
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>10</b>	36	48
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>2</b>	<1	<1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

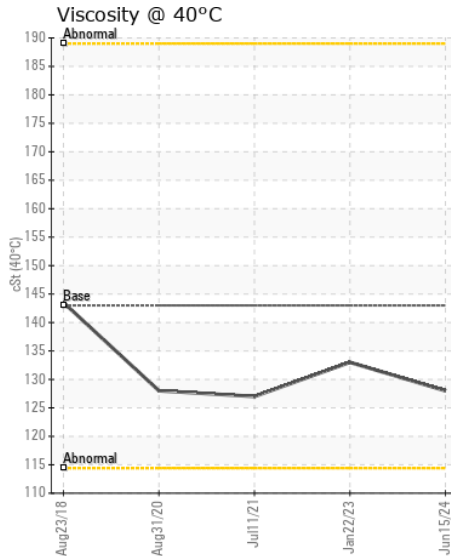
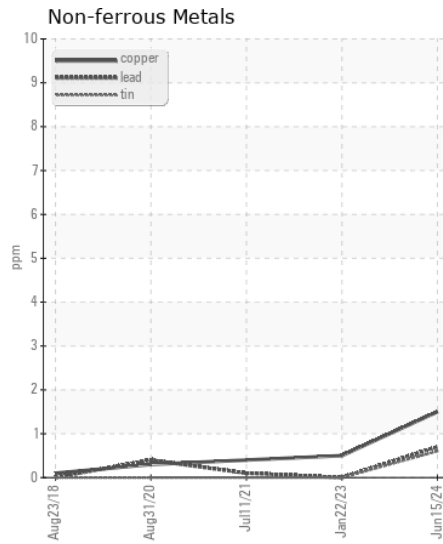
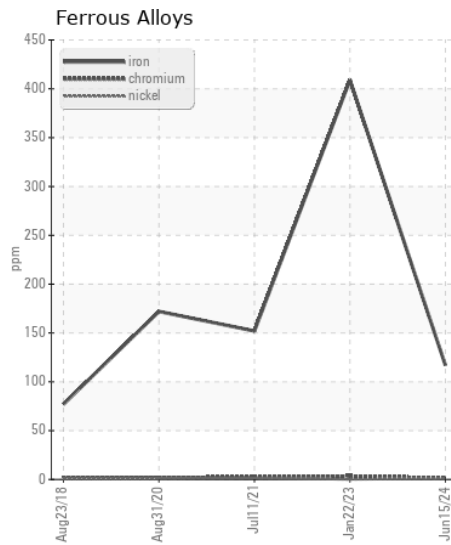
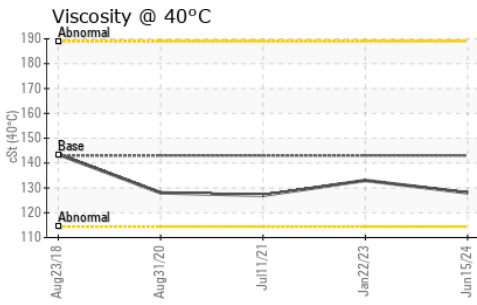
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>33</b>	▲ 100	▲ 105
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	5	6
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>LIGHT</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	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m	>170	<b>1</b>	1	4
Boron	ppm	ASTM D5185m	400	<b>215</b>	134	34
Barium	ppm	ASTM D5185m	200	<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m	12	<b>2</b>	4	4
Manganese	ppm	ASTM D5185m		<b>2</b>	4	2
Magnesium	ppm	ASTM D5185m	12	<b>6</b>	18	18
Calcium	ppm	ASTM D5185m	150	<b>35</b>	76	145
Phosphorus	ppm	ASTM D5185m	1650	<b>971</b>	927	349
Zinc	ppm	ASTM D5185m	125	<b>26</b>	61	119
Sulfur	ppm	ASTM D5185m	22500	<b>19791</b>	23103	17883
Visc @ 40°C	cSt	ASTM D445	143	<b>128</b>	133	127



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : CL0005567  
**Lab Number** : 06218607  
**Unique Number** : 11096804  
**Test Package** : CONST  
**Received** : 24 Jun 2024  
**Tested** : 25 Jun 2024  
**Diagnosed** : 25 Jun 2024 - Wes Davis

**BAKER AR**  
 8819 COLUMBUS RD  
 DAVIDSON, NC  
 US 28036  
 Contact: Service Manager

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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F: