



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

Machine Id  
**HITACHI 470LC HCMJAG60K00061628**

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>JR0198256</b>	JR0172195	JR0161561
Sample Date		Client Info		<b>07 Feb 2024</b>	12 Jul 2023	27 Mar 2023
Machine Age	hrs	Client Info		<b>3072</b>	2065	1465
Oil Age	hrs	Client Info		<b>1007</b>	1465	500
Filter Age	hrs	Client Info		<b>0</b>	0	500
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>14</b>	189	108
Iron	ppm	ASTM D5185m	>500	<b>2</b>	598	270
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	6	3
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	2	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	▲ 32	17
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	1	<1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

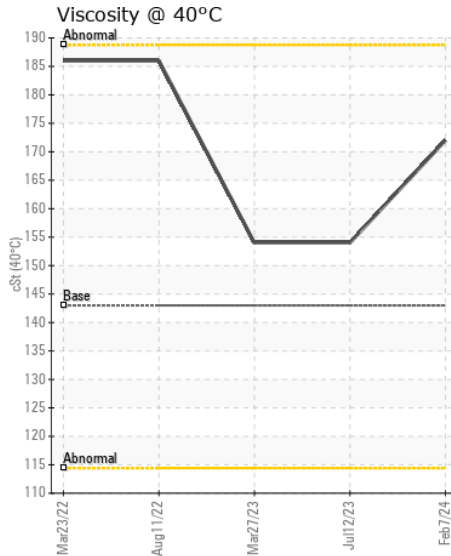
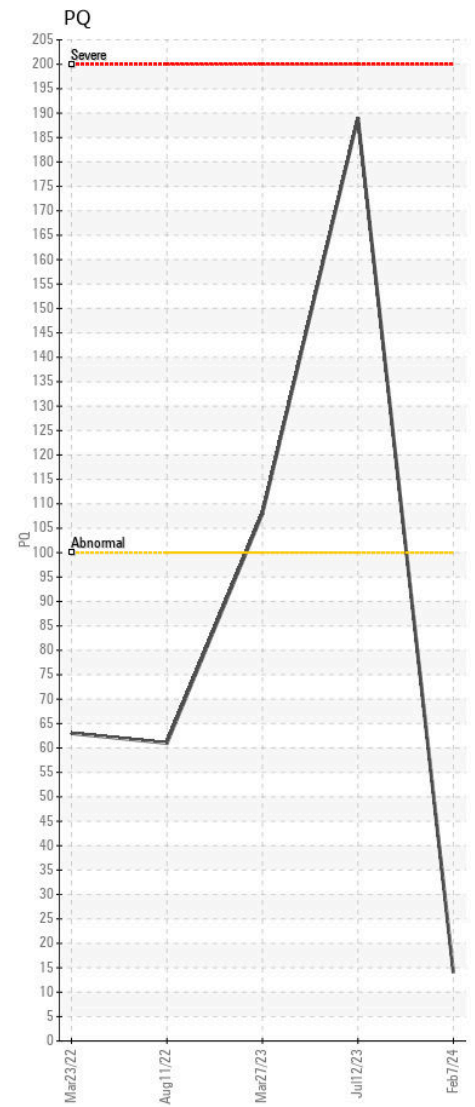
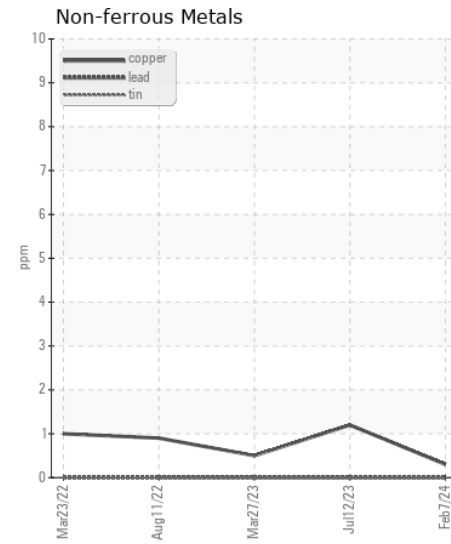
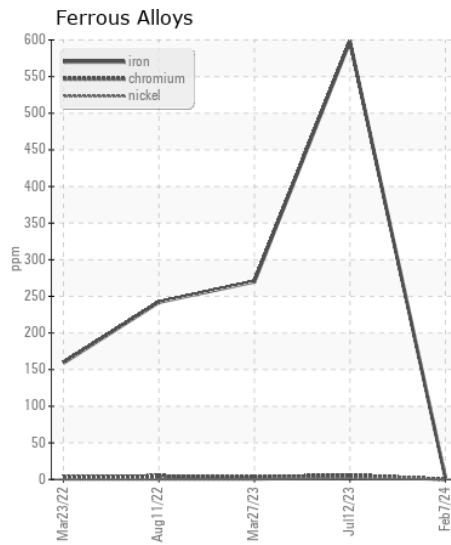
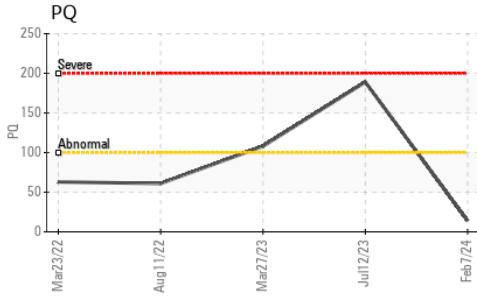
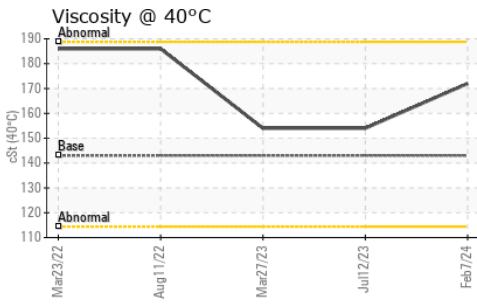
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>&lt;1</b>	▲ 61	40
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	12	8
Water		WC Method	>0.2	<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	>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>0</b>	3	2
Boron	ppm	ASTM D5185m	400	<b>0</b>	103	115
Barium	ppm	ASTM D5185m	200	<b>12</b>	6	<1
Molybdenum	ppm	ASTM D5185m	12	<b>&lt;1</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>0</b>	9	6
Magnesium	ppm	ASTM D5185m	12	<b>6</b>	4	<1
Calcium	ppm	ASTM D5185m	150	<b>153</b>	28	8
Phosphorus	ppm	ASTM D5185m	1650	<b>960</b>	880	878
Zinc	ppm	ASTM D5185m	125	<b>50</b>	32	18
Sulfur	ppm	ASTM D5185m	22500	<b>24405</b>	20852	20641
Visc @ 40°C	cSt	ASTM D445	143	<b>172</b>	154	154



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0198256 **Received** : 14 Feb 2024  
**Lab Number** : 06089073 **Tested** : 15 Feb 2024  
**Unique Number** : 10876518 **Diagnosed** : 15 Feb 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - CHARLOTTE**  
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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)