



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

Machine Id  
**HITACHI 470LC HCMJAG60J00061632**

Component  
**Left Final Drive**

Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0198395</b>	JR0188657	JR0171640
Sample Date		Client Info		<b>11 Jan 2024</b>	02 Oct 2023	12 Jun 2023
Machine Age	hrs	Client Info		<b>2491</b>	2491	1976
Oil Age	hrs	Client Info		<b>1976</b>	515	1976
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Filter Changed		Client Info		<b>N/A</b>	Not Changd	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>14</b>	13	115
Iron	ppm	ASTM D5185m	>500	<b>&lt;1</b>	0	659
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	8
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>0</b>	2	16
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>1</b>	0	<1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

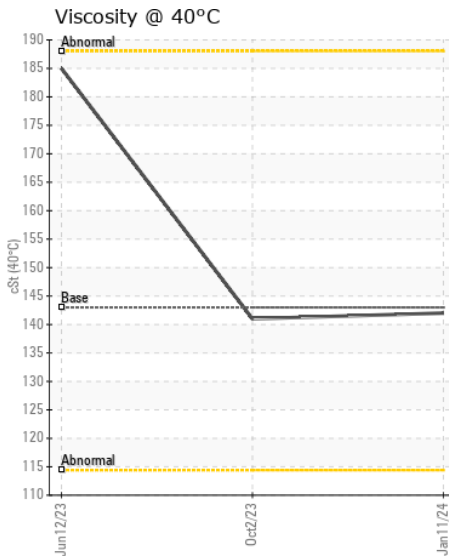
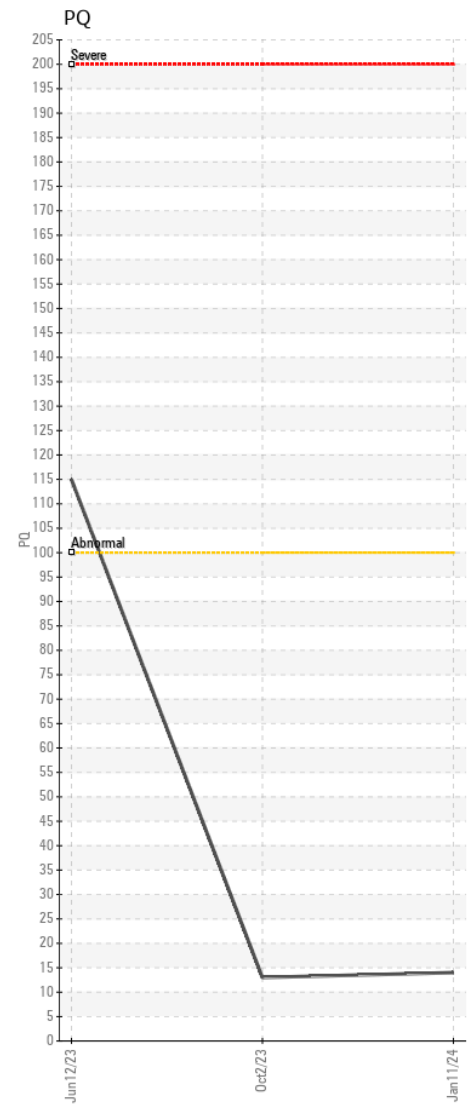
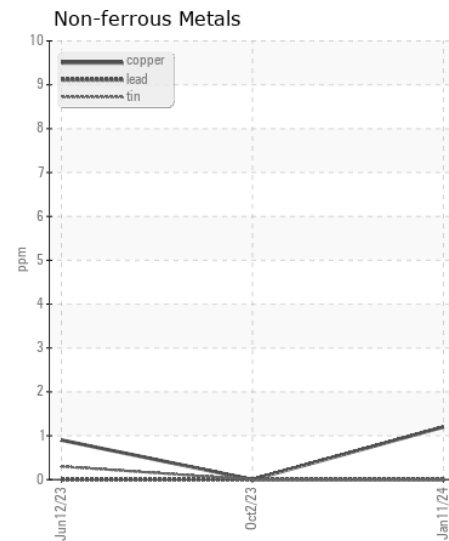
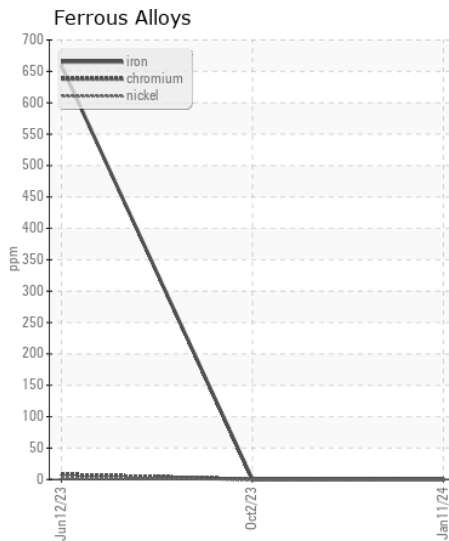
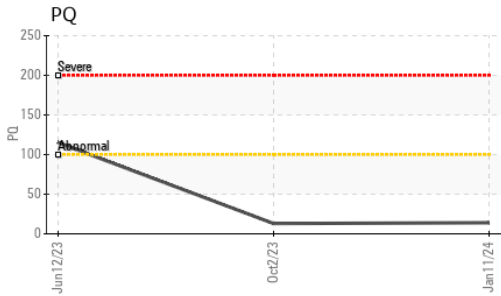
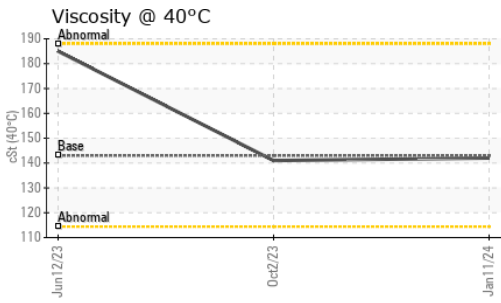
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>&lt;1</b>	<1	36
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	17
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>&lt;1</b>	0	2
Boron	ppm	ASTM D5185m	400	<b>0</b>	8	47
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	9
Molybdenum	ppm	ASTM D5185m	12	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	16
Magnesium	ppm	ASTM D5185m	12	<b>2</b>	<1	2
Calcium	ppm	ASTM D5185m	150	<b>90</b>	3	9
Phosphorus	ppm	ASTM D5185m	1650	<b>328</b>	438	545
Zinc	ppm	ASTM D5185m	125	<b>20</b>	0	33
Sulfur	ppm	ASTM D5185m	22500	<b>19120</b>	21934	20234
Visc @ 40°C	cSt	ASTM D445	143	<b>142</b>	141	185



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0198395 **Received** : 17 Jan 2024  
**Lab Number** : 06063038 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10834420 **Diagnostician** : Sean Felton  
**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)