



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

Area  
**[W67089]**

Machine Id  
**HITACHI 250LC 1FFDC270VKF440229**

Component  
**Right Final Drive**

Fluid  
**GEAR OIL SAE 80W90 (3 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: W67089 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0215579</b>	JR0178058	JR0161988
Sample Date		Client Info		<b>28 May 2024</b>	07 Sep 2023	02 May 2023
Machine Age	hrs	Client Info		<b>6448</b>	6010	5466
Oil Age	hrs	Client Info		<b>438</b>	544	500
Filter Age	hrs	Client Info		<b>0</b>	0	500
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changd</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>195</b>	210	128
Iron	ppm	ASTM D5185m	>500	<b>249</b>	▲ 671	● 366
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	7	4
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	2	1
Titanium	ppm	ASTM D5185m		<b>1</b>	2	2
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>15</b>	● 33	● 37
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>&lt;1</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

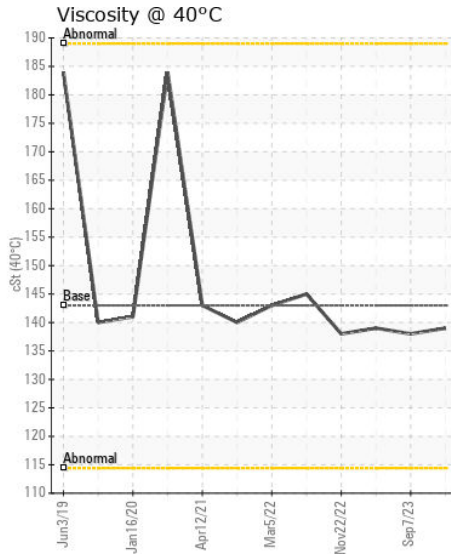
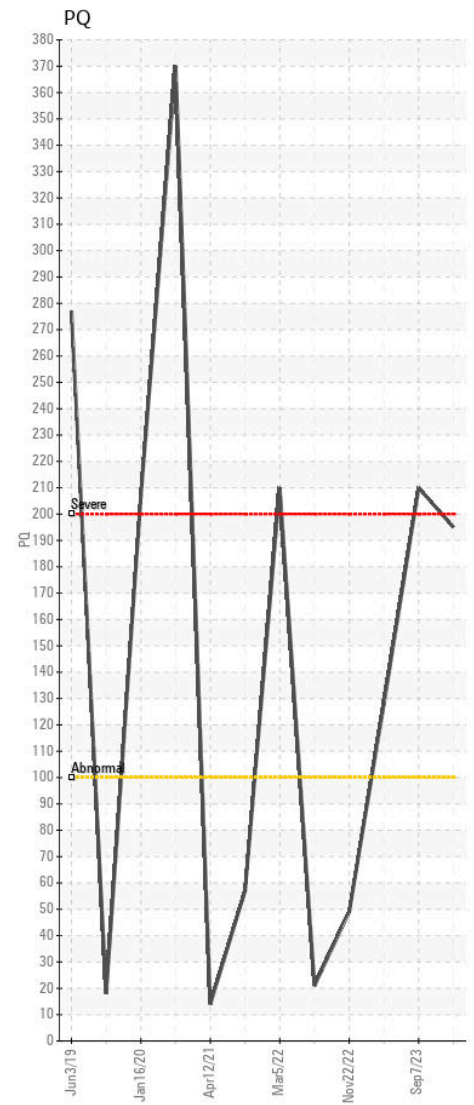
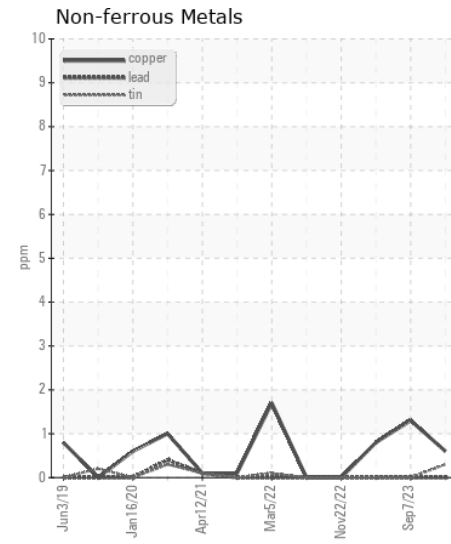
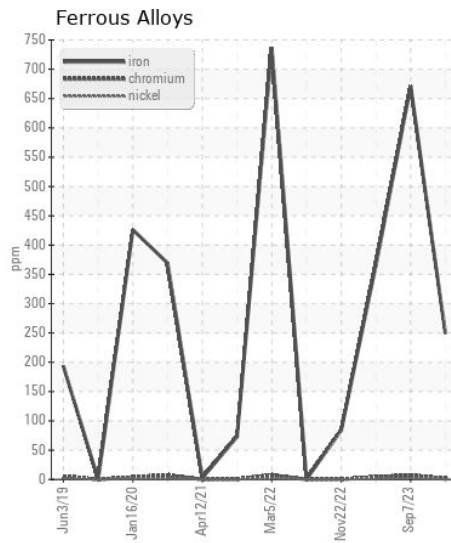
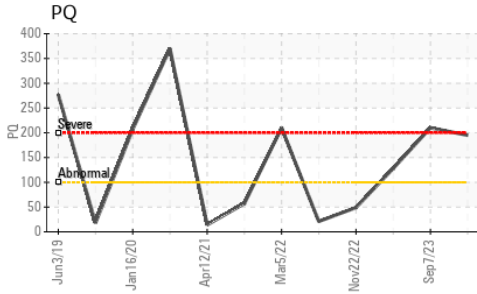
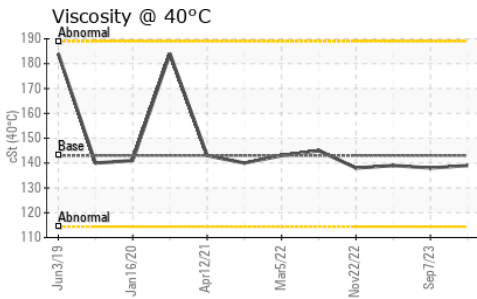
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>48</b>	▲ 105	▲ 87
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	4	4
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</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>	5	<1
Boron	ppm	ASTM D5185m	400	<b>8</b>	5	5
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	12	<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>3</b>	6	4
Magnesium	ppm	ASTM D5185m	12	<b>4</b>	0	5
Calcium	ppm	ASTM D5185m	150	<b>63</b>	7	23
Phosphorus	ppm	ASTM D5185m	1650	<b>418</b>	357	326
Zinc	ppm	ASTM D5185m	125	<b>16</b>	0	13
Sulfur	ppm	ASTM D5185m	22500	<b>23233</b>	21701	19701
Visc @ 40°C	cSt	ASTM D445	143	<b>139</b>	138	139



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0215579 **Received** : 30 May 2024  
**Lab Number** : 06195675 **Tested** : 03 Jun 2024  
**Unique Number** : 11057798 **Diagnosed** : 03 Jun 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

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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)