



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

Machine Id  
**HITACHI 300 1FFDP70JHF840193**  
 Component  
**Swing Drive Gear Case**  
 Fluid  
**GEAR OIL LS 80W90 (--- GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0204823</b>	JR0014362	---
Sample Date		Client Info		<b>25 Feb 2024</b>	25 Jul 2019	---
Machine Age	hrs	Client Info		<b>7278</b>	2458	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	N/A	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>ABNORMAL</b>	NORMAL	---

### WEAR

Gear wear is indicated. All other component wear rates are normal.

PQ		ASTM D8184		<b>45</b>	130	---
Iron	ppm	ASTM D5185m	>200	<b>▲ 330</b>	104	---
Chromium	ppm	ASTM D5185m	>10	<b>3</b>	2	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m		<b>2</b>	1	---
Lead	ppm	ASTM D5185m		<b>1</b>	0	---
Copper	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Tin	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	VLITE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

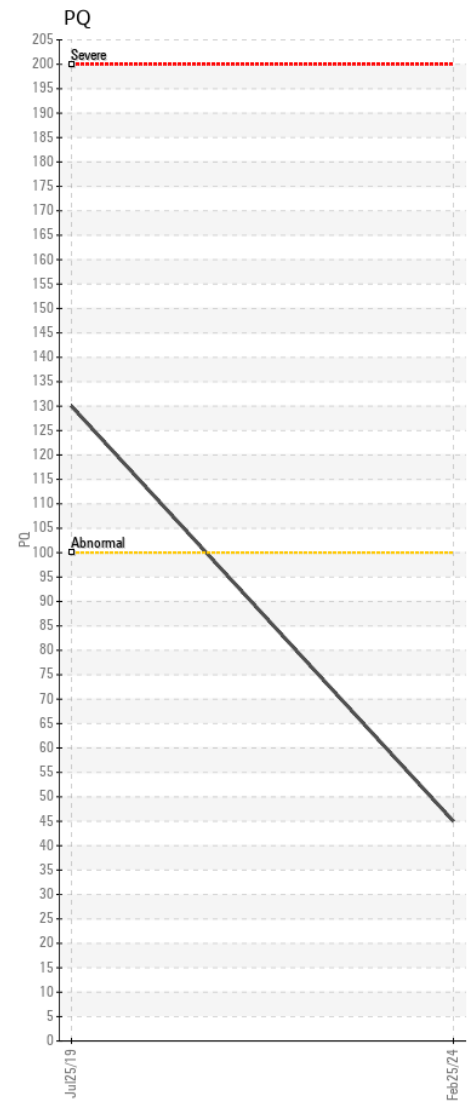
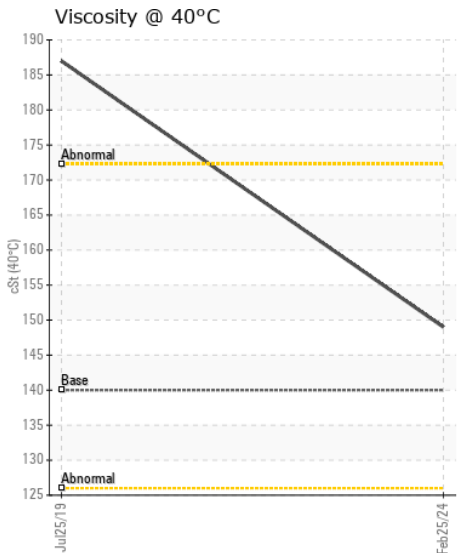
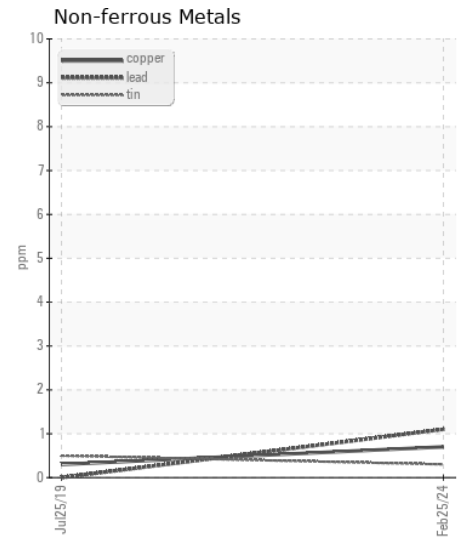
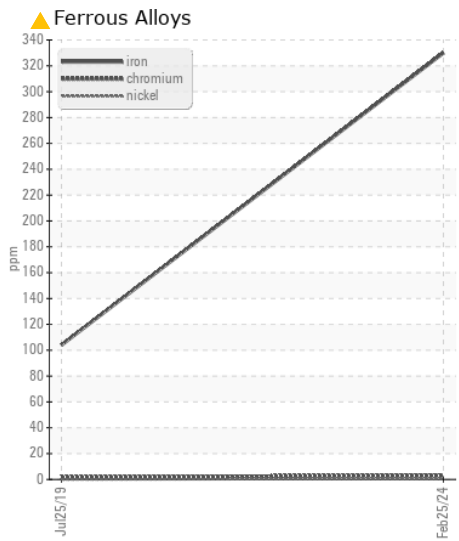
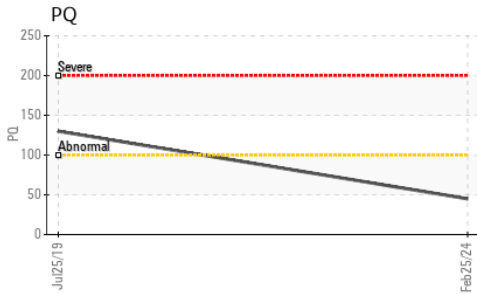
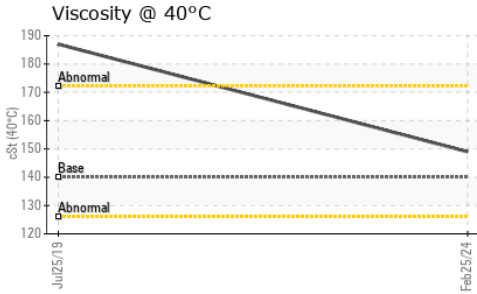
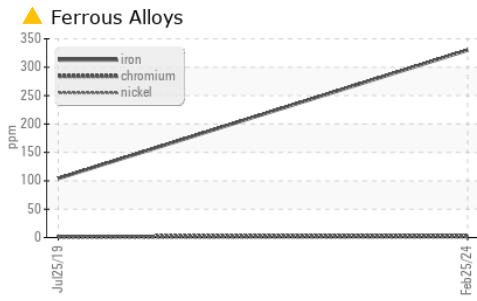
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		<b>17</b>	19	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>2</b>	0	---
Boron	ppm	ASTM D5185m	150	<b>41</b>	59	---
Barium	ppm	ASTM D5185m		<b>0</b>	3	---
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Manganese	ppm	ASTM D5185m		<b>4</b>	2	---
Magnesium	ppm	ASTM D5185m	10	<b>6</b>	0	---
Calcium	ppm	ASTM D5185m	70	<b>13</b>	17	---
Phosphorus	ppm	ASTM D5185m	2000	<b>734</b>	413	---
Zinc	ppm	ASTM D5185m	50	<b>2</b>	6	---
Sulfur	ppm	ASTM D5185m	20000	<b>18372</b>	13071	---
Visc @ 40°C	cSt	ASTM D445	140	<b>149</b>	187	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0204823 **Received** : 26 Feb 2024  
**Lab Number** : 06100350 **Tested** : 27 Feb 2024  
**Unique Number** : 10898580 **Diagnosed** : 28 Feb 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

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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