



Machine Id
HITACHI 160LC 1FFDBP70ARF240257
 Component
Right Final Drive
 Fluid
GEAR OIL SAE 90 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

The iron level is abnormal. All other metal levels are typical for a new component breaking in.

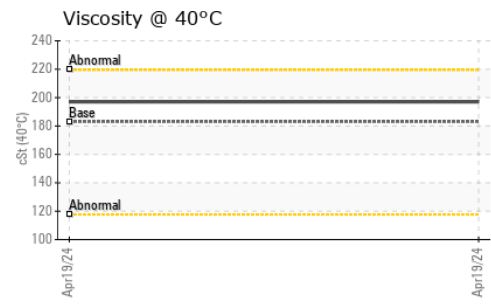
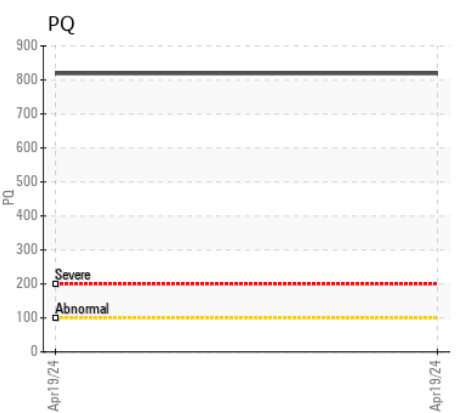
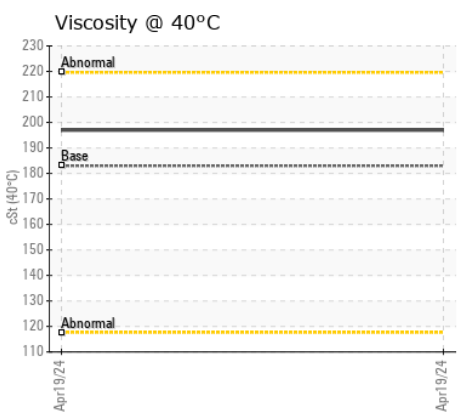
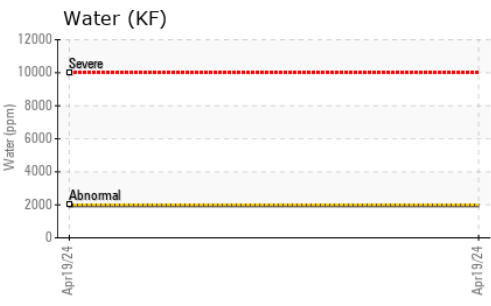
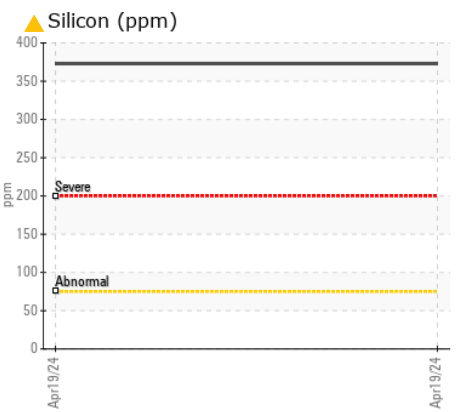
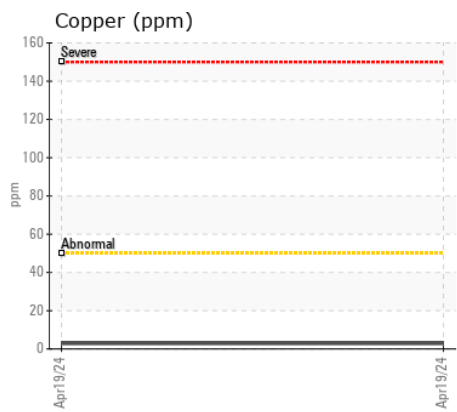
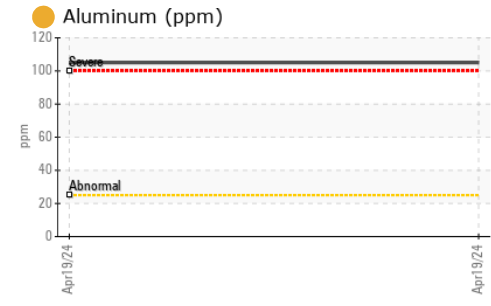
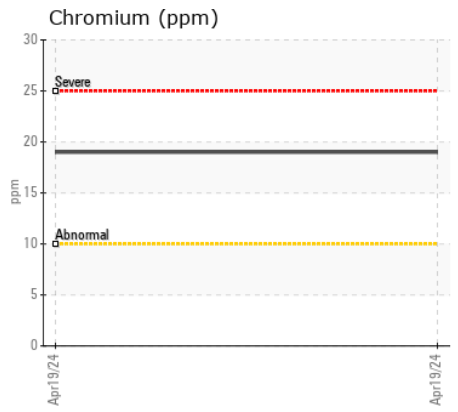
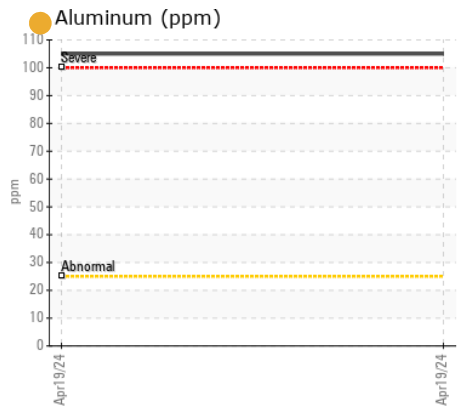
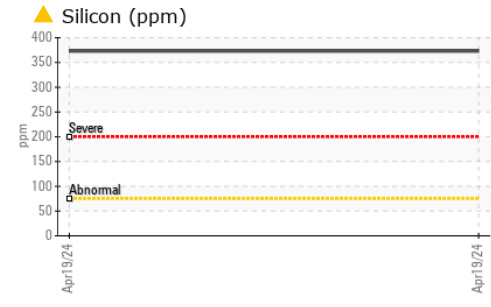
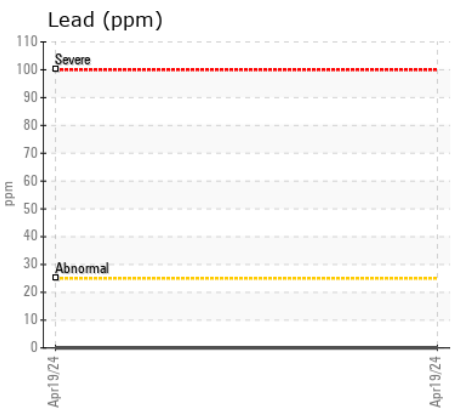
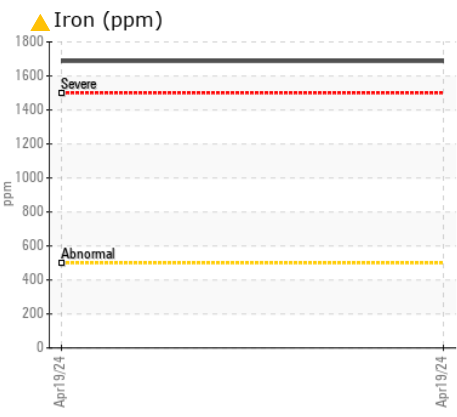
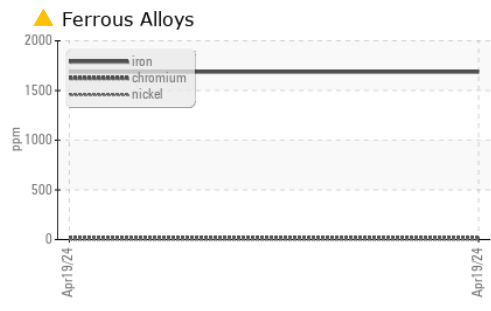
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0081333	---	---
Sample Date		Client Info		19 Apr 2024	---	---
Machine Age	hrs	Client Info		2961	---	---
Oil Age	hrs	Client Info		2961	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---
PQ		ASTM D8184		819	---	---
Iron	ppm	ASTM D5185m	>500	▲ 1687	---	---
Chromium	ppm	ASTM D5185m	>10	19	---	---
Nickel	ppm	ASTM D5185m	>10	2	---	---
Titanium	ppm	ASTM D5185m		8	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	● 105	---	---
Lead	ppm	ASTM D5185m	>25	0	---	---
Copper	ppm	ASTM D5185m	>50	3	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>75	▲ 373	---	---
Potassium	ppm	ASTM D5185m	>20	34	---	---
Water	%	ASTM D6304	>0.2	0.195	---	---
ppm Water	ppm	ASTM D6304	>2000	1950	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	0.2%	---	---
Sodium	ppm	ASTM D5185m		9	---	---
Boron	ppm	ASTM D5185m	400	69	---	---
Barium	ppm	ASTM D5185m	200	9	---	---
Molybdenum	ppm	ASTM D5185m	12	0	---	---
Manganese	ppm	ASTM D5185m		27	---	---
Magnesium	ppm	ASTM D5185m	12	22	---	---
Calcium	ppm	ASTM D5185m	150	35	---	---
Phosphorus	ppm	ASTM D5185m	1650	520	---	---
Zinc	ppm	ASTM D5185m	125	35	---	---
Sulfur	ppm	ASTM D5185m	22500	18765	---	---
Visc @ 40°C	cSt	ASTM D445	183	197	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0081333 **Received** : 24 Apr 2024
Lab Number : 06159361 **Tested** : 25 Apr 2024
Unique Number : 10994784 **Diagnosed** : 26 Apr 2024 - Don Baldrige
Test Package : MOBCE (Additional Tests: KF, 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)