



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta

Machine Id
HITACHI ZX250LC5 EX14 (S/N E430286)

Component
Pump Drive

Fluid
GEAR OIL SAE 90 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0048960	LEC0040465	---
Sample Date		Client Info		23 May 2024	04 Apr 2023	---
Machine Age	hrs	Client Info		6165	5686	---
Oil Age	hrs	Client Info		1000	500	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

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

PQ		ASTM D8184		61	61	---
Iron	ppm	ASTM D5185m	>500	▲ 858	▲ 912	---
Chromium	ppm	ASTM D5185m	>15	7	9	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		4	4	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>20	16	17	---
Lead	ppm	ASTM D5185m		0	0	---
Copper	ppm	ASTM D5185m	>35	<1	1	---
Tin	ppm	ASTM D5185m	>4	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

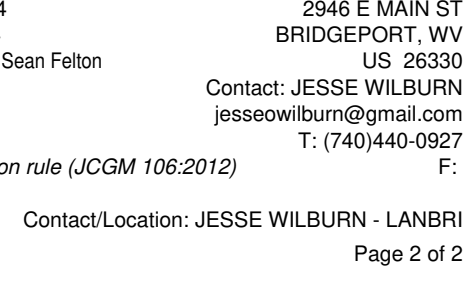
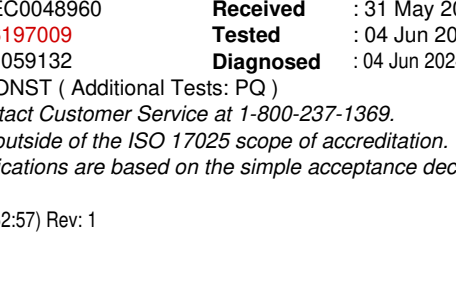
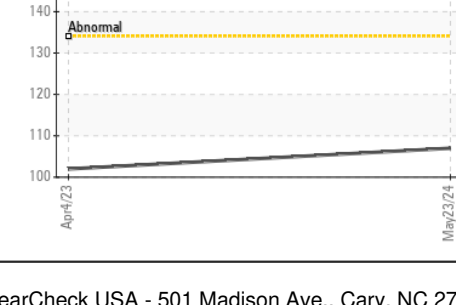
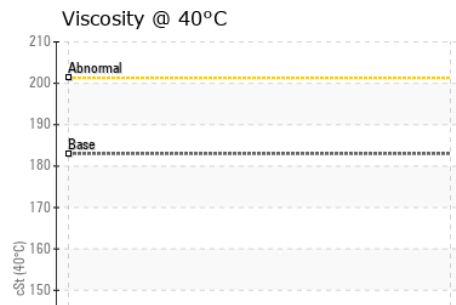
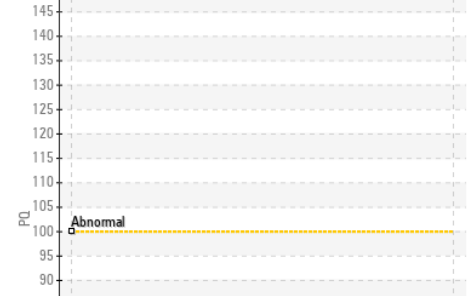
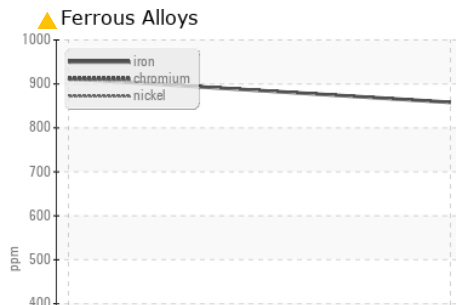
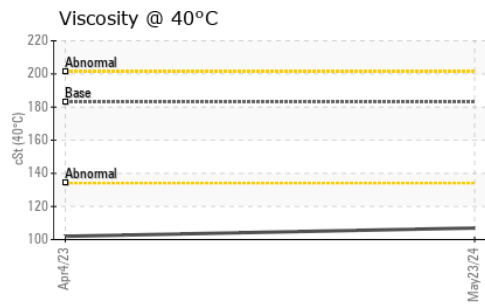
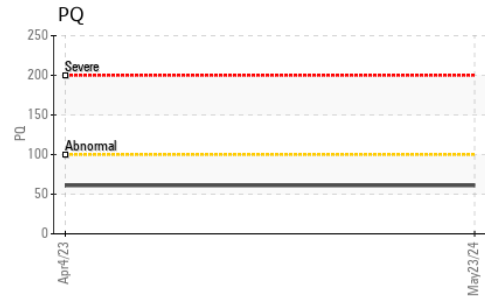
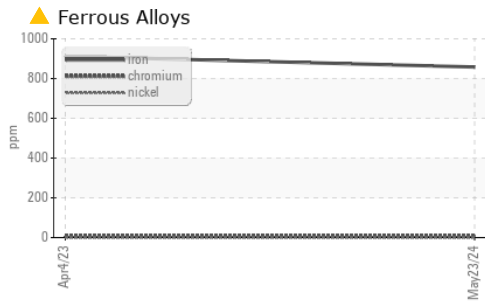
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	62	55	---
Potassium	ppm	ASTM D5185m	>20	2	3	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		4	3	---
Boron	ppm	ASTM D5185m	400	205	166	---
Barium	ppm	ASTM D5185m	200	2	1	---
Molybdenum	ppm	ASTM D5185m	12	31	35	---
Manganese	ppm	ASTM D5185m		8	8	---
Magnesium	ppm	ASTM D5185m	12	213	267	---
Calcium	ppm	ASTM D5185m	150	493	607	---
Phosphorus	ppm	ASTM D5185m	1650	1006	864	---
Zinc	ppm	ASTM D5185m	125	383	457	---
Sulfur	ppm	ASTM D5185m	22500	18772	17621	---
Visc @ 40°C	cSt	ASTM D445	183	107	102	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048960 **Received** : 31 May 2024
Lab Number : 06197009 **Tested** : 04 Jun 2024
Unique Number : 11059132 **Diagnosed** : 04 Jun 2024 - Sean Felton
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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