



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta
Machine Id
HITACHI ZX250LC5 EX14 (S/N E430286)
Component
Left Final Drive
Fluid
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. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

CONTAMINATION

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

FLUID CONDITION

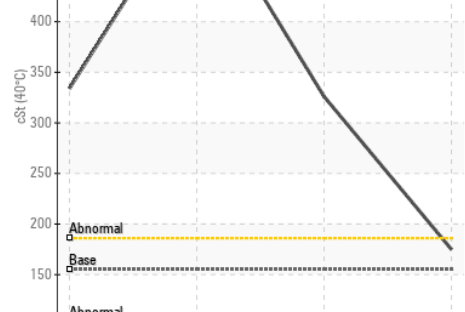
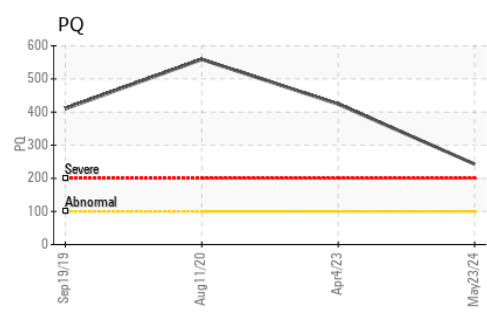
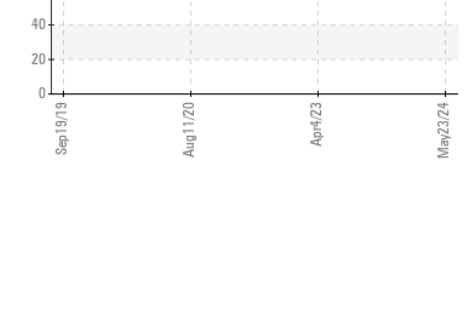
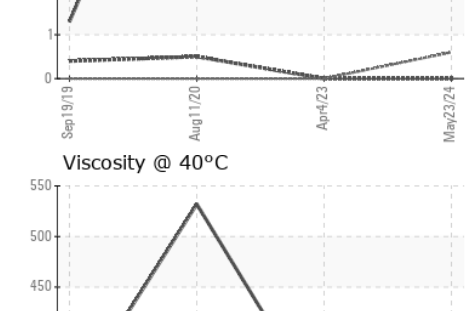
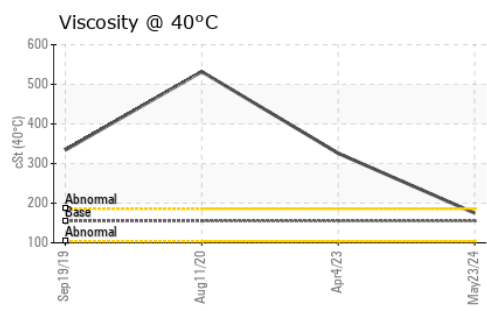
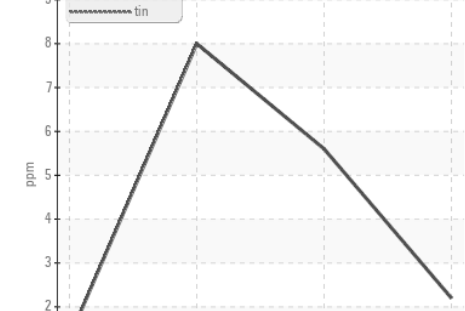
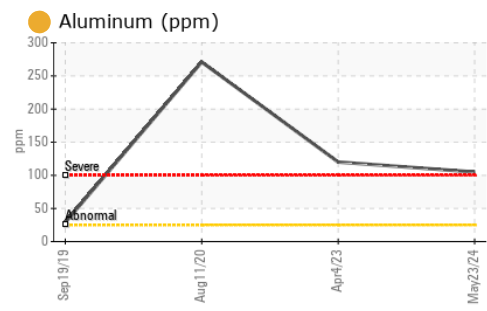
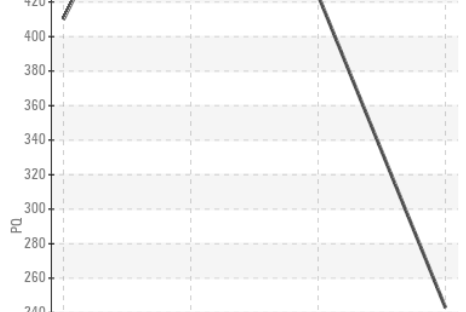
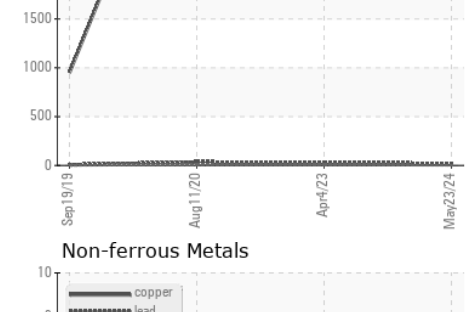
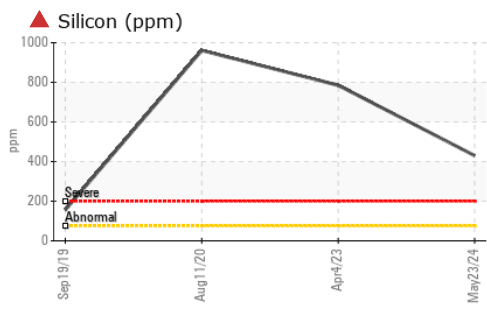
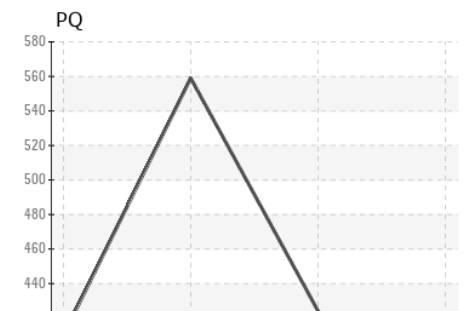
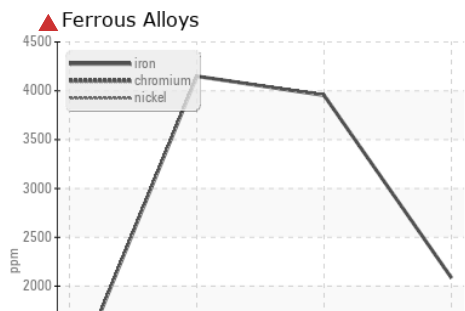
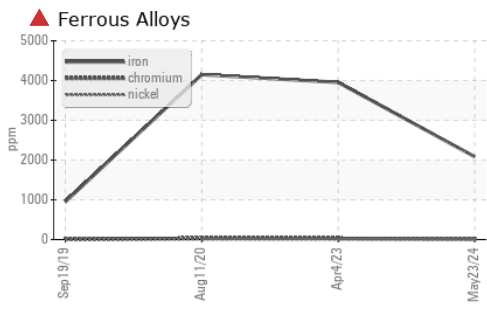
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0048957	LEC0040468	LEC0014496
Sample Date		Client Info		23 May 2024	04 Apr 2023	11 Aug 2020
Machine Age	hrs	Client Info		6165	5686	4671
Oil Age	hrs	Client Info		1000	500	500
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Chngd	Changed
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				SEVERE	SEVERE	SEVERE

PQ		ASTM D8184		243	424	559
Iron	ppm	ASTM D5185m	>500	▲ 2085	▲ 3954	▲ 4149
Chromium	ppm	ASTM D5185m	>10	▲ 17	▲ 30	▲ 34
Nickel	ppm	ASTM D5185m	>10	2	4	5
Titanium	ppm	ASTM D5185m		8	15	19
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	● 105	● 120	● 271
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>50	2	6	8
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	1	1
White Metal	scalar	*Visual	NONE	NONE	MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>75	▲ 430	▲ 785	▲ 961
Potassium	ppm	ASTM D5185m	>20	26	43	60
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

Sodium	ppm	ASTM D5185m		7	9	12
Boron	ppm	ASTM D5185m		54	105	163
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		4	3	4
Manganese	ppm	ASTM D5185m		17	27	33
Magnesium	ppm	ASTM D5185m		8	21	24
Calcium	ppm	ASTM D5185m		18	28	91
Phosphorus	ppm	ASTM D5185m		579	727	839
Zinc	ppm	ASTM D5185m		0	7	6
Sulfur	ppm	ASTM D5185m		27223	29734	33814
Visc @ 40°C	cSt	ASTM D445	155	175	● 326	● 532



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048957 **Received** : 31 May 2024
Lab Number : 06197033 **Tested** : 04 Jun 2024
Unique Number : 11059156 **Diagnosed** : 04 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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 BRIDGEPORT, WV
 US 26330
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 T: (740)440-0927
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Certificate L2367
 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)