



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta

Machine Id
HITACHI ZX250LC5 EX14 (S/N E430286)

Component
Right Final Drive

Fluid
SAE 90 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. 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. The water content is negligible.

FLUID CONDITION

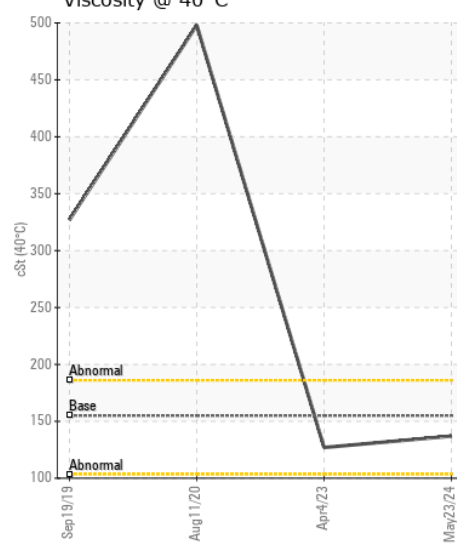
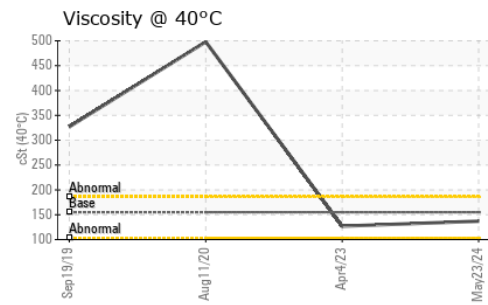
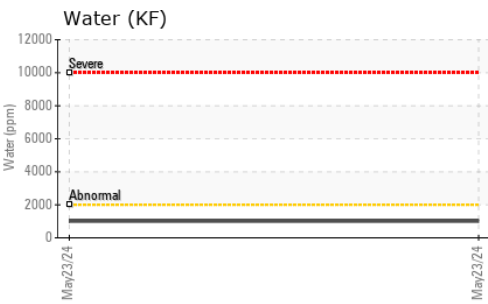
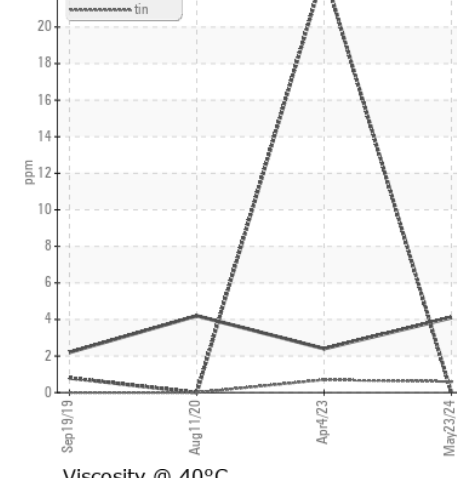
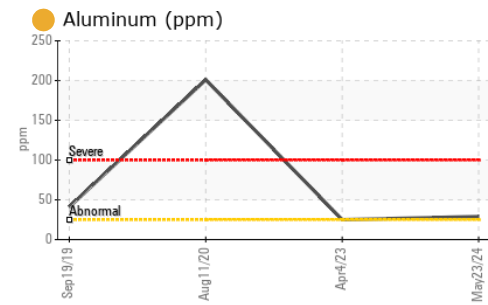
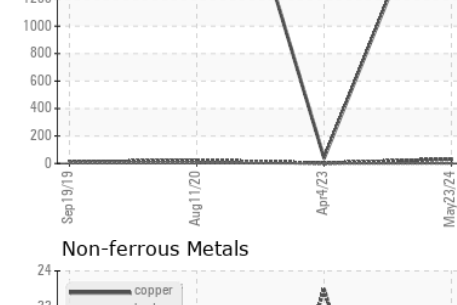
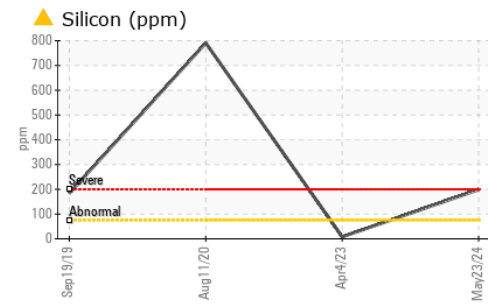
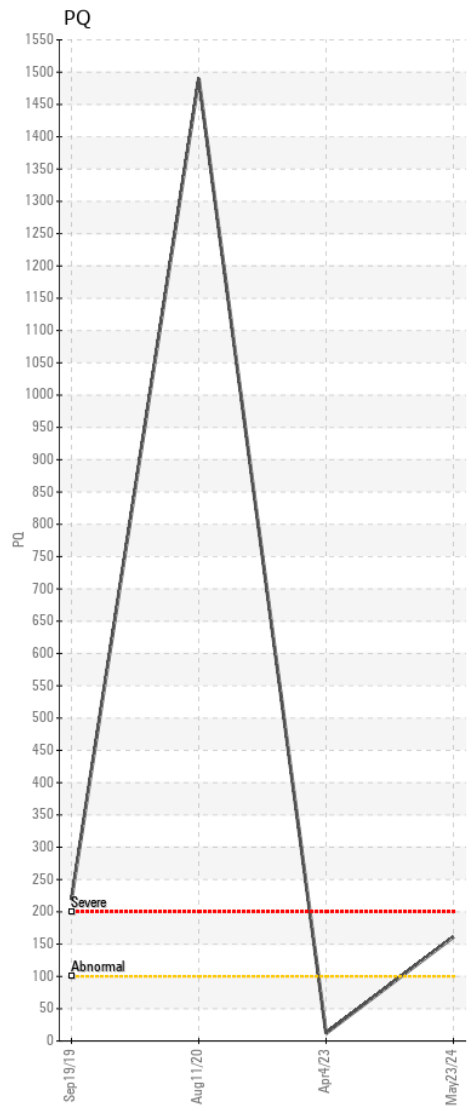
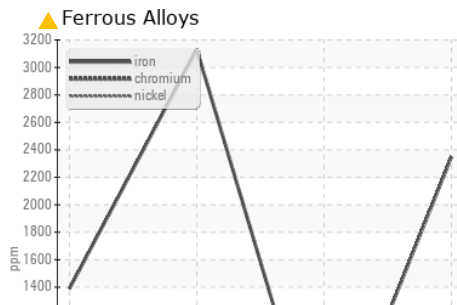
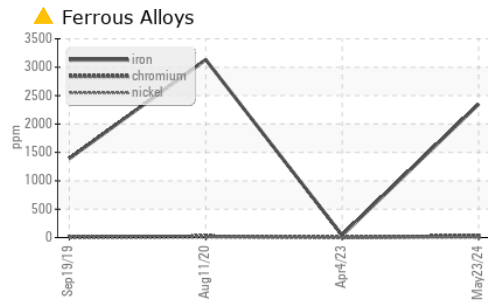
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0048958	LEC0040467	LEC0014495
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 Changd	Changed
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				ABNORMAL	NORMAL	SEVERE

PQ		ASTM D8184		161	12	1490
Iron	ppm	ASTM D5185m	>500	▲ 2349	39	▲ 3132
Chromium	ppm	ASTM D5185m	>10	▲ 31	1	▲ 22
Nickel	ppm	ASTM D5185m	>10	<1	0	4
Titanium	ppm	ASTM D5185m		3	0	15
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	● 29	25	● 201
Lead	ppm	ASTM D5185m	>25	0	23	0
Copper	ppm	ASTM D5185m	>50	4	2	4
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	2
White Metal	scalar	*Visual	NONE	NONE	NONE	▲ MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>75	▲ 199	8	▲ 791
Potassium	ppm	ASTM D5185m	>20	7	4	45
Water	%	ASTM D6304	>0.2	0.101	---	---
ppm Water	ppm	ASTM D6304	>2000	1010	---	---
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	0.2%	NEG	NEG

Sodium	ppm	ASTM D5185m		98	4	10
Boron	ppm	ASTM D5185m		177	213	110
Barium	ppm	ASTM D5185m		26	0	1
Molybdenum	ppm	ASTM D5185m		4	126	0
Manganese	ppm	ASTM D5185m		25	1	21
Magnesium	ppm	ASTM D5185m		14	737	18
Calcium	ppm	ASTM D5185m		145	1658	27
Phosphorus	ppm	ASTM D5185m		991	709	802
Zinc	ppm	ASTM D5185m		38	905	9
Sulfur	ppm	ASTM D5185m		20974	3212	37028
Visc @ 40°C	cSt	ASTM D445	155	137	127	● 498



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048958 **Received** : 31 May 2024
Lab Number : 06197032 **Tested** : 04 Jun 2024
Unique Number : 11059155 **Diagnosed** : 04 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: KF, PQ)

LANE PIPELINE
 2946 E MAIN ST
 BRIDGEPORT, WV
 US 26330
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 T: (740)440-0927
 F:

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)