



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta
Machine Id
HITACHI ZX250LC5 EX14 (S/N E430286)
Component
Swing Drive
Fluid
GEAR OIL SAE 90 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

Appearance is hazy. There is a moderate concentration of water present in the oil.

FLUID CONDITION

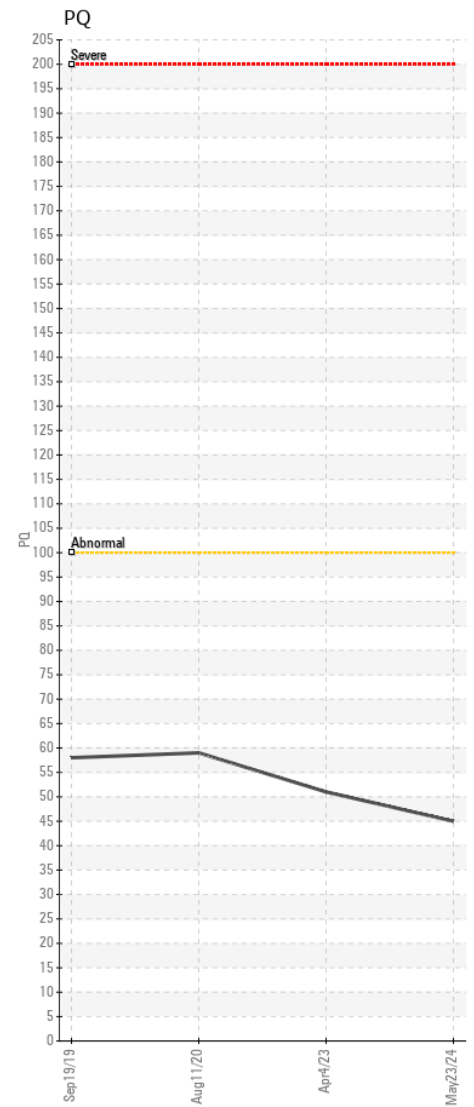
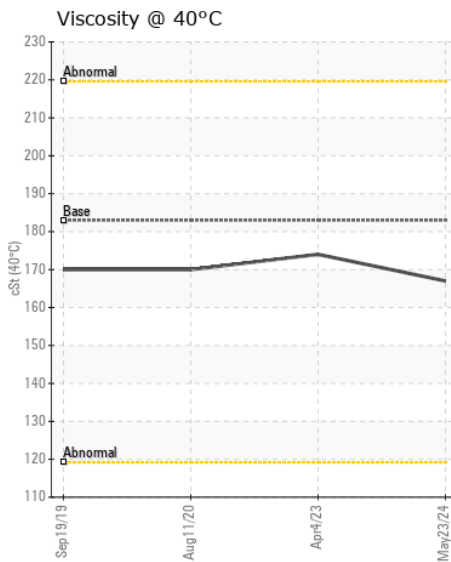
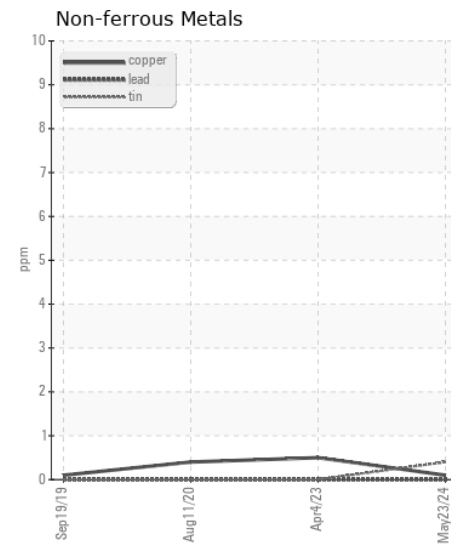
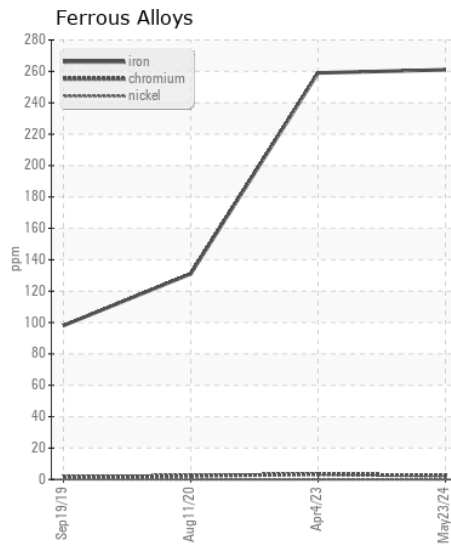
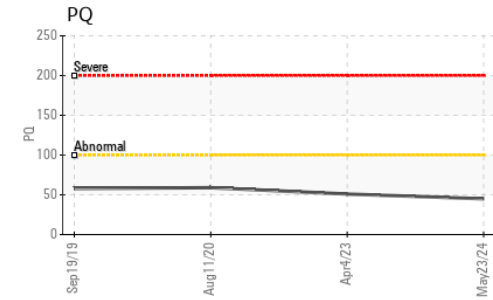
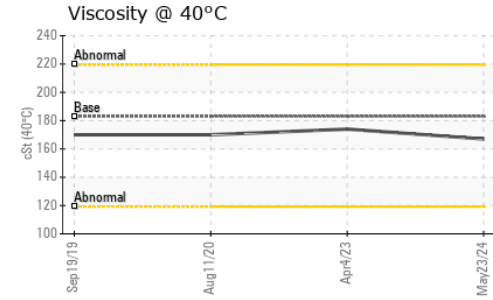
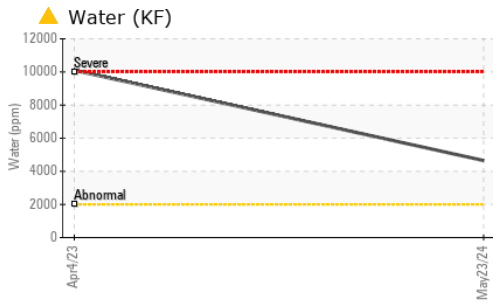
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0048959	LEC0040466	LEC0014493
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	2000
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ABNORMAL	SEVERE	NORMAL

PQ		ASTM D8184		45	51	59
Iron	ppm	ASTM D5185m	>400	261	259	131
Chromium	ppm	ASTM D5185m	>10	2	3	2
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	1	3	0
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>50	26	25	20
Potassium	ppm	ASTM D5185m	>20	7	5	1
Water	%	ASTM D6304	>0.2	▲ 0.465	▲ 1.01	---
ppm Water	ppm	ASTM D6304	>2000	▲ 4650	▲ 10100	---
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	● HAZY	● MILKY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	▲ 0.2%	▲ 0.2%	NEG

Sodium	ppm	ASTM D5185m		2	1	0
Boron	ppm	ASTM D5185m	400	84	73	86
Barium	ppm	ASTM D5185m	200	4	3	5
Molybdenum	ppm	ASTM D5185m	12	3	<1	<1
Manganese	ppm	ASTM D5185m		4	4	2
Magnesium	ppm	ASTM D5185m	12	2	3	2
Calcium	ppm	ASTM D5185m	150	20	29	32
Phosphorus	ppm	ASTM D5185m	1650	653	597	580
Zinc	ppm	ASTM D5185m	125	20	28	12
Sulfur	ppm	ASTM D5185m	22500	19253	19498	15805
Visc @ 40°C	cSt	ASTM D445	183	167	174	170



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048959 **Received** : 31 May 2024
Lab Number : 06196996 **Tested** : 03 Jun 2024
Unique Number : 11059119 **Diagnosed** : 04 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: KF, PQ)

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