



WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
HITACHI ZX210LC E-26 (S/N 1FFDCJ70CFE330715)

Component
Hydraulic System

Fluid
{not provided} (--- GAL)

RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. The oil change at the time of sampling has been noted. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

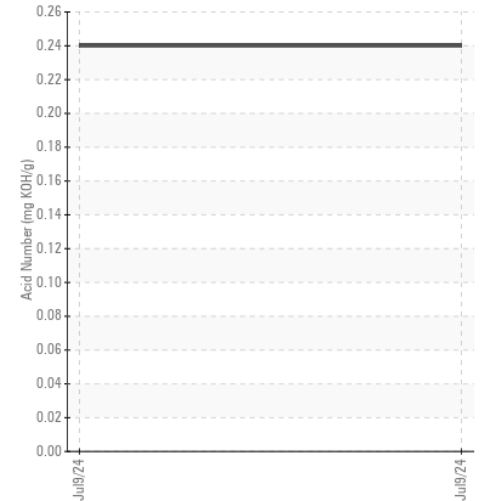
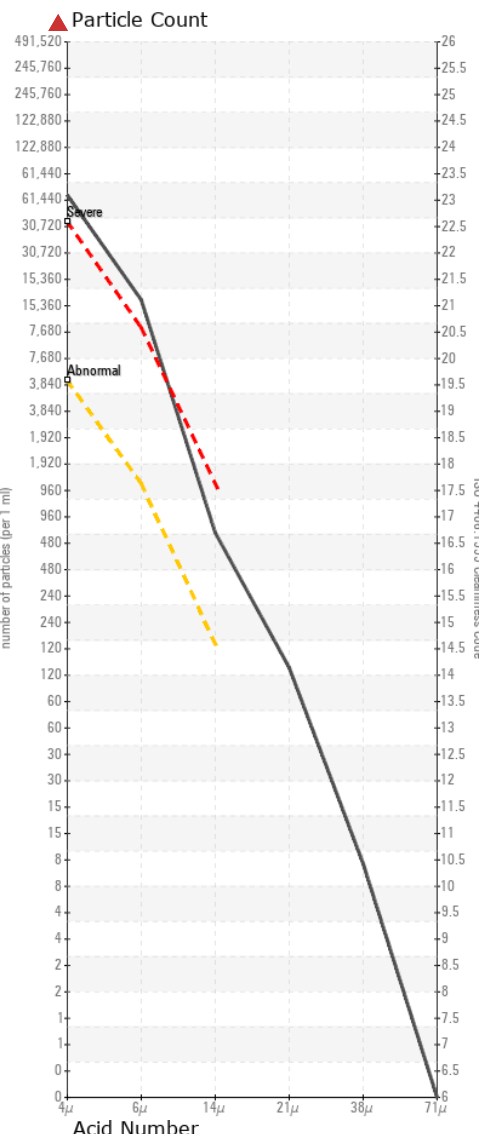
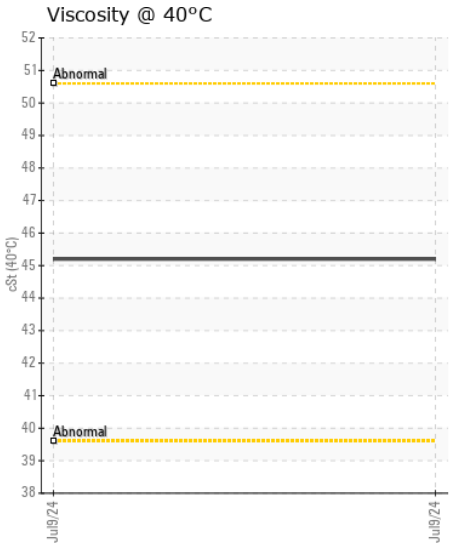
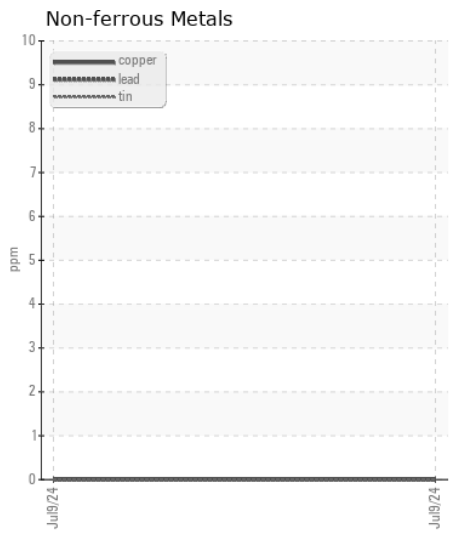
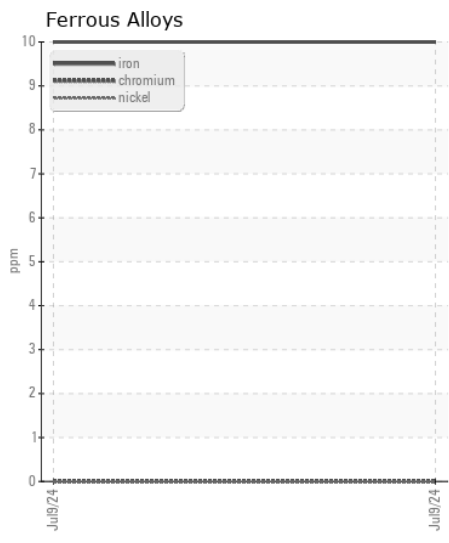
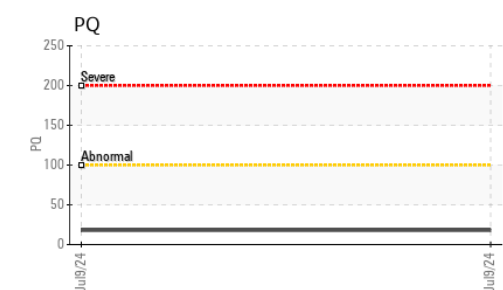
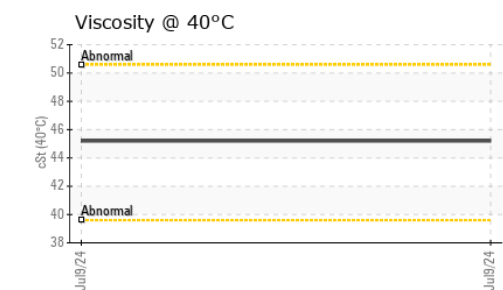
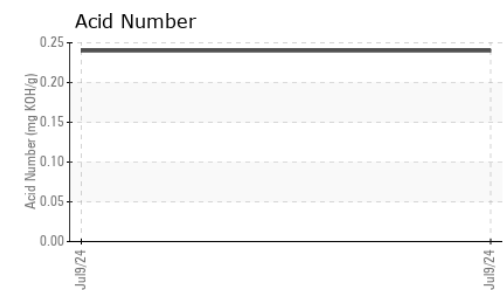
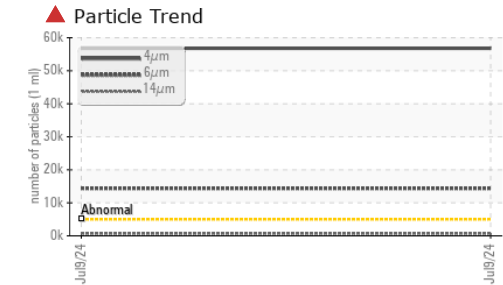
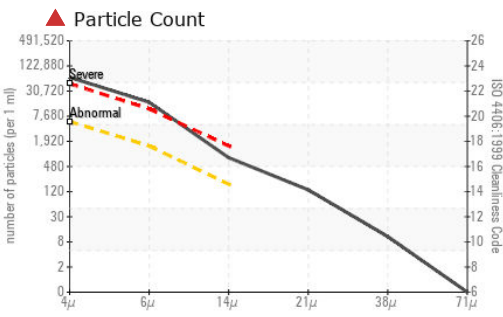
CONTAMINATION

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196384	---	---
Sample Date		Client Info		09 Jul 2024	---	---
Machine Age	hrs	Client Info		8247	---	---
Oil Age	hrs	Client Info		4075	---	---
Filter Age	hrs	Client Info		1226	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				SEVERE	---	---
PQ		ASTM D8184		18	---	---
Iron	ppm	ASTM D5185m	>20	10	---	---
Chromium	ppm	ASTM D5185m	>10	0	---	---
Nickel	ppm	ASTM D5185m	>10	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>10	0	---	---
Lead	ppm	ASTM D5185m	>10	0	---	---
Copper	ppm	ASTM D5185m	>75	0	---	---
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	>20	0	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Water		WC Method	>0.1	NEG	---	---
Particles >4µm		ASTM D7647	>5000	▲ 56779	---	---
Particles >6µm		ASTM D7647	>1300	▲ 14379	---	---
Particles >14µm		ASTM D7647	>160	▲ 684	---	---
Particles >21µm		ASTM D7647	>40	▲ 117	---	---
Particles >38µm		ASTM D7647	>10	9	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 23/21/17	---	---
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	>0.1	NEG	---	---
Sodium	ppm	ASTM D5185m		<1	---	---
Boron	ppm	ASTM D5185m		0	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		0	---	---
Manganese	ppm	ASTM D5185m		0	---	---
Magnesium	ppm	ASTM D5185m		<1	---	---
Calcium	ppm	ASTM D5185m		5	---	---
Phosphorus	ppm	ASTM D5185m		464	---	---
Zinc	ppm	ASTM D5185m		141	---	---
Sulfur	ppm	ASTM D5185m		719	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.24	---	---
Visc @ 40°C	cSt	ASTM D445		45.2	---	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0196384 **Received** : 11 Jul 2024
Lab Number : 06233185 **Tested** : 12 Jul 2024
Unique Number : 11116678 **Diagnosed** : 12 Jul 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

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 Contact: CHRIS DAWSON
 chris@tubgrinding.com
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 F: (910)793-6227

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)