



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
HITACHI ZX350-LC6 EX6127 (S/N 940187)
 Component
Left Final Drive
 Fluid
DURALENE Dura-Trans TO-4 50 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. 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.

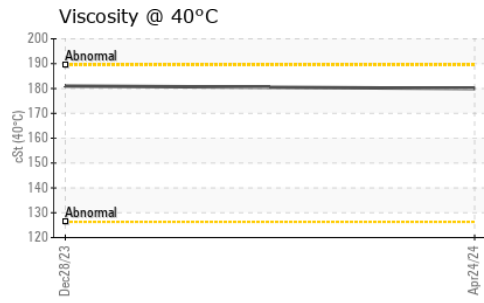
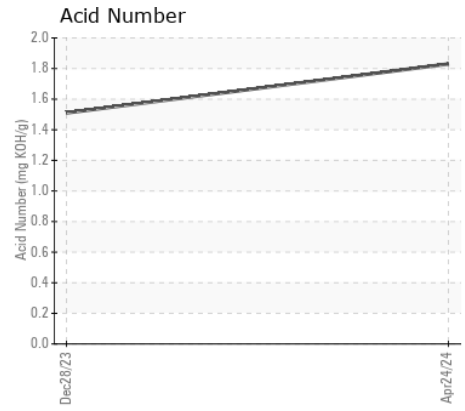
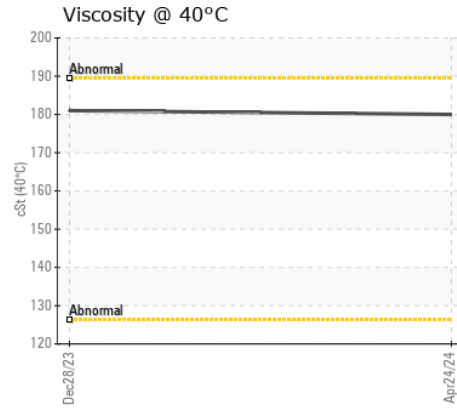
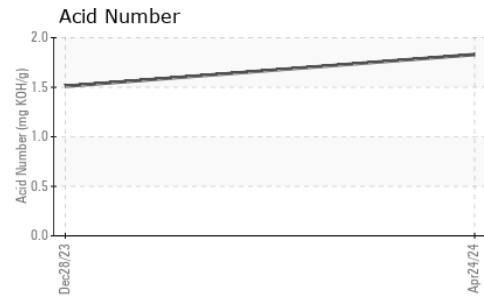
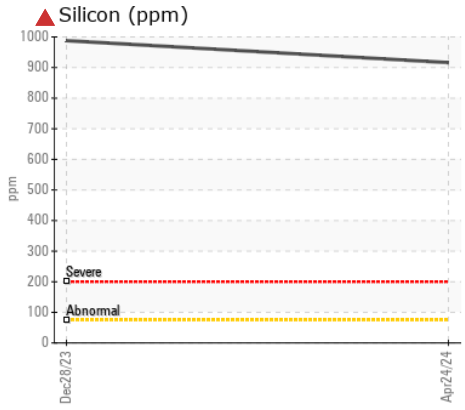
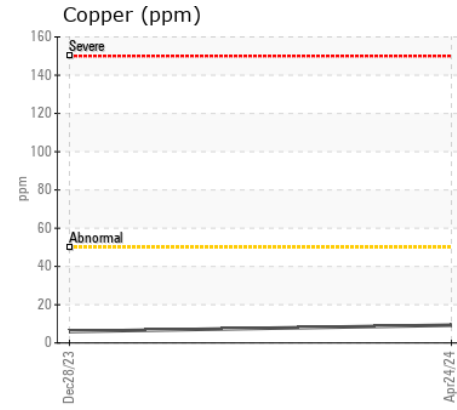
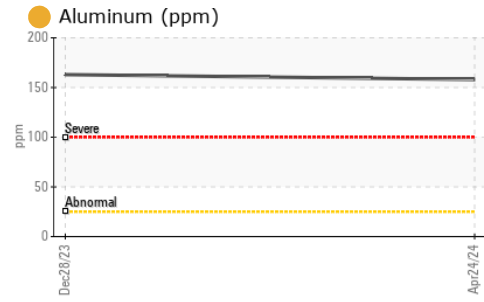
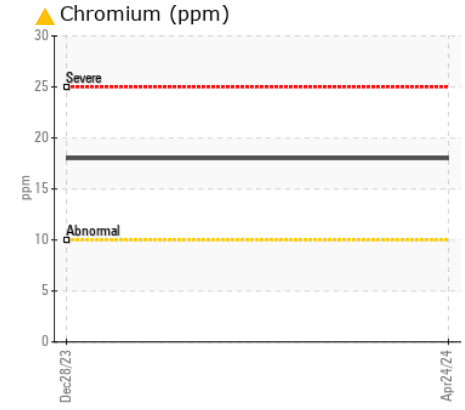
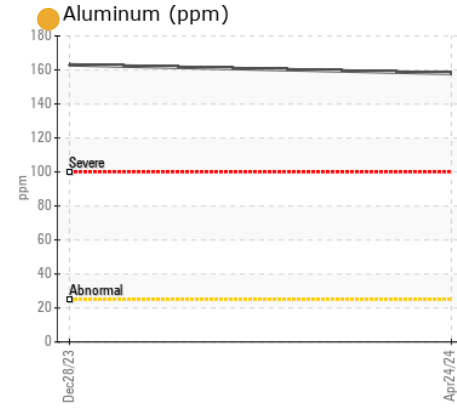
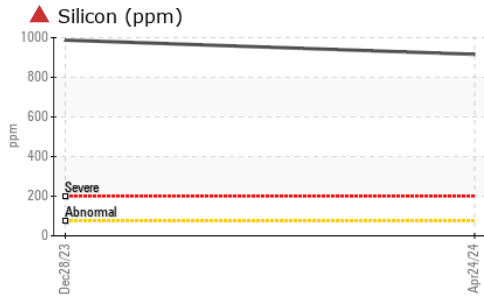
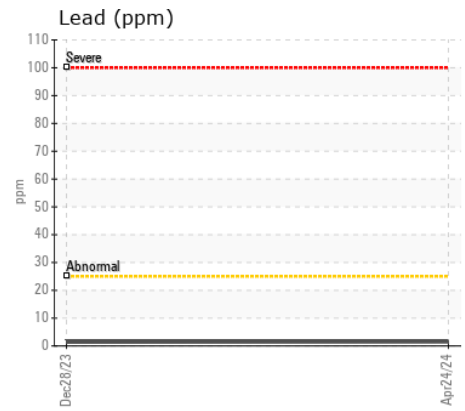
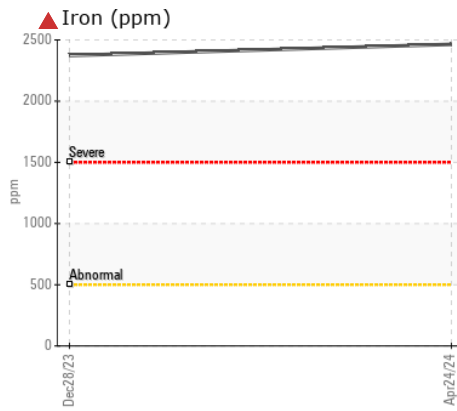
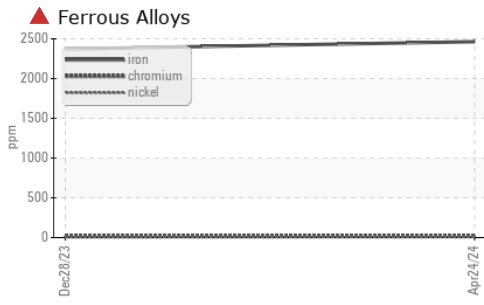
CONTAMINATION

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

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0032447	DC0031152	---
Sample Date		Client Info		24 Apr 2024	28 Dec 2023	---
Machine Age	hrs	Client Info		6500	6298	---
Oil Age	hrs	Client Info		0	1300	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				SEVERE	SEVERE	---
Iron	ppm	ASTM D5185m	>500	▲ 2464	▲ 2373	---
Chromium	ppm	ASTM D5185m	>10	▲ 18	▲ 18	---
Nickel	ppm	ASTM D5185m	>10	6	4	---
Titanium	ppm	ASTM D5185m		14	▲ 15	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	● 158	▲ 163	---
Lead	ppm	ASTM D5185m	>25	2	1	---
Copper	ppm	ASTM D5185m	>50	9	6	---
Tin	ppm	ASTM D5185m	>10	0	<1	---
Vanadium	ppm	ASTM D5185m		1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>75	▲ 916	▲ 988	---
Potassium	ppm	ASTM D5185m	>20	33	35	---
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	---
Sodium	ppm	ASTM D5185m		13	13	---
Boron	ppm	ASTM D5185m		34	30	---
Barium	ppm	ASTM D5185m		0	<1	---
Molybdenum	ppm	ASTM D5185m		6	4	---
Manganese	ppm	ASTM D5185m		21	20	---
Magnesium	ppm	ASTM D5185m		64	68	---
Calcium	ppm	ASTM D5185m		2520	2408	---
Phosphorus	ppm	ASTM D5185m		1064	987	---
Zinc	ppm	ASTM D5185m		1045	1034	---
Sulfur	ppm	ASTM D5185m		17624	13100	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.83	1.51	---
Visc @ 40°C	cSt	ASTM D445		180	181	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0032447
Lab Number : 06160563
Unique Number : 10995986
Test Package : MOB 2

Received : 25 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 27 Apr 2024 - Don Baldrige

COMER CONSTRUCTION
 2100 SLADE LANE
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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)