



ASCENDUM

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

Ascendum Machinery/250 Hour CSA

Machine Id

HITACHI ZX650LC-3 1767 (S/N 20066)

Component

Left Travel

Fluid

VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0001752	---	---
Sample Date		Client Info		08 Jan 2024	---	---
Machine Age	hrs	Client Info		12252	---	---
Oil Age	hrs	Client Info		12252	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		None	---	---
Sample Status				ABNORMAL	---	---

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	▲ 668	---	---
Chromium	ppm	ASTM D5185m	>20	5	---	---
Nickel	ppm	ASTM D5185m	>5	<1	---	---
Titanium	ppm	ASTM D5185m		2	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>100	20	---	---
Lead	ppm	ASTM D5185m	>10	5	---	---
Copper	ppm	ASTM D5185m	>60	1	---	---
Tin	ppm	ASTM D5185m	>5	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

There is no indication of any contamination in the oil.

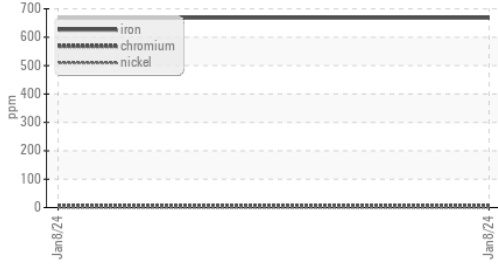
Silicon	ppm	ASTM D5185m	>150	92	---	---
Potassium	ppm	ASTM D5185m	>20	14	---	---
Water		WC Method	>0.2	NEG	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---	---

FLUID CONDITION

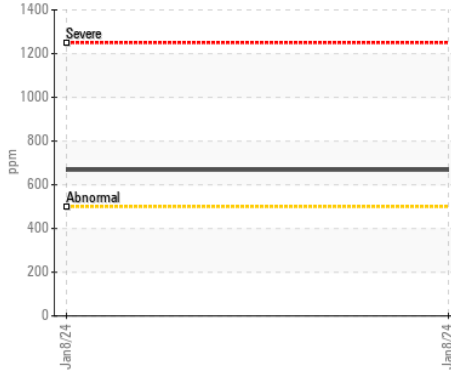
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		1	---	---
Boron	ppm	ASTM D5185m	111	17	---	---
Barium	ppm	ASTM D5185m	0.0	9	---	---
Molybdenum	ppm	ASTM D5185m	0.9	<1	---	---
Manganese	ppm	ASTM D5185m	0.0	9	---	---
Magnesium	ppm	ASTM D5185m	39	3	---	---
Calcium	ppm	ASTM D5185m	93	40	---	---
Phosphorus	ppm	ASTM D5185m	920	420	---	---
Zinc	ppm	ASTM D5185m	104	24	---	---
Sulfur	ppm	ASTM D5185m	20179	16174	---	---
Visc @ 40°C	cSt	ASTM D445	333	174	---	---

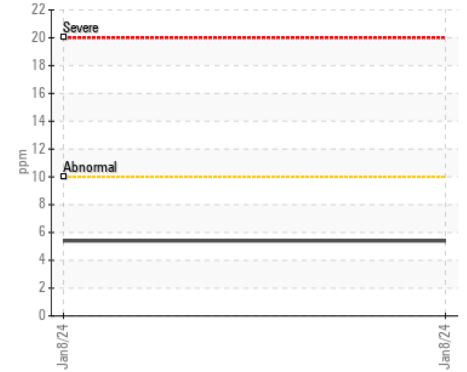
▲ Ferrous Alloys



▲ Iron (ppm)



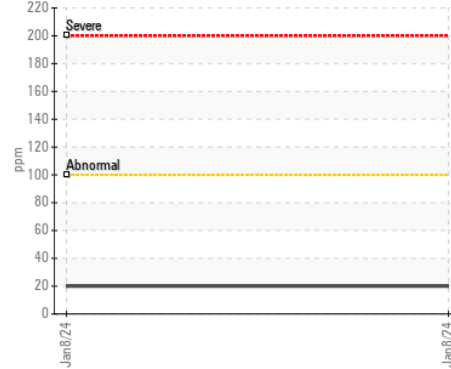
Lead (ppm)



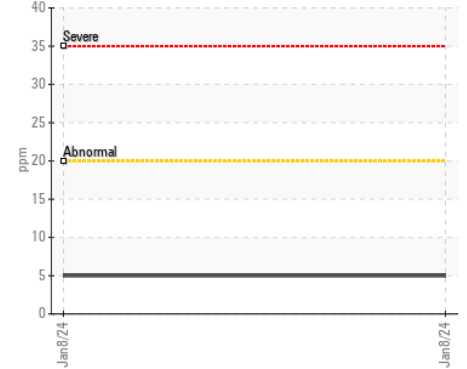
Viscosity @ 40°C



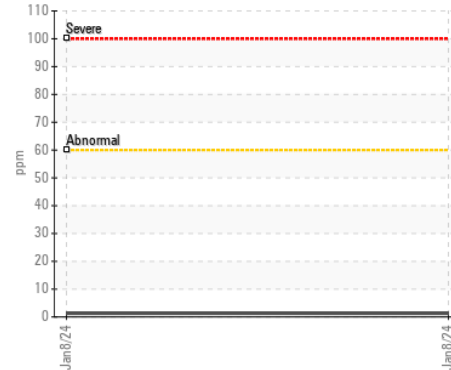
Aluminum (ppm)



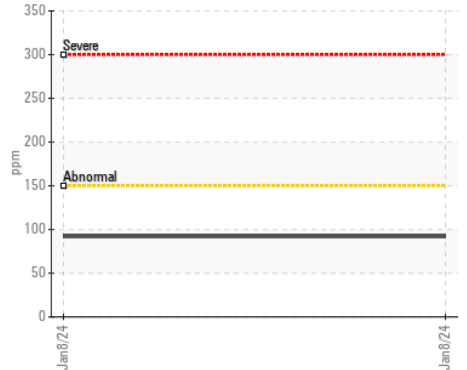
Chromium (ppm)



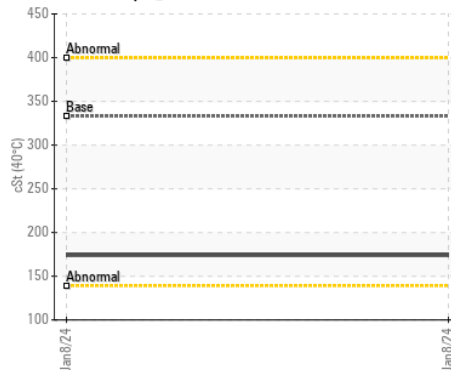
Copper (ppm)



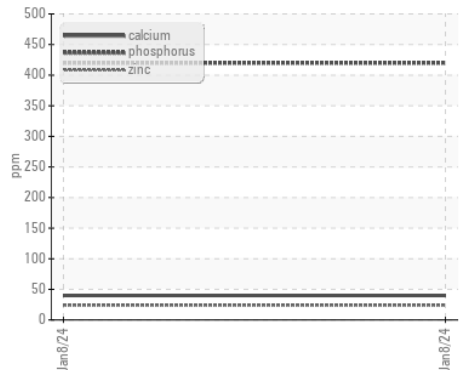
Silicon (ppm)



Viscosity @ 40°C



Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0001752 **Received** : 12 Jan 2024
Lab Number : 06059634 **Diagnosed** : 16 Jan 2024
Unique Number : 10831016 **Diagnostician** : Jonathan Hester
Test Package : MOBCE

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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)