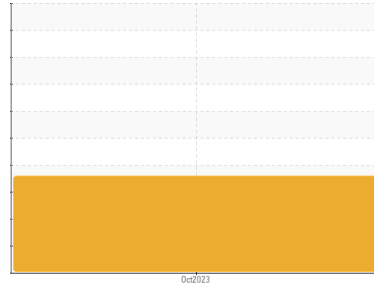


# PROBLEM SUMMARY

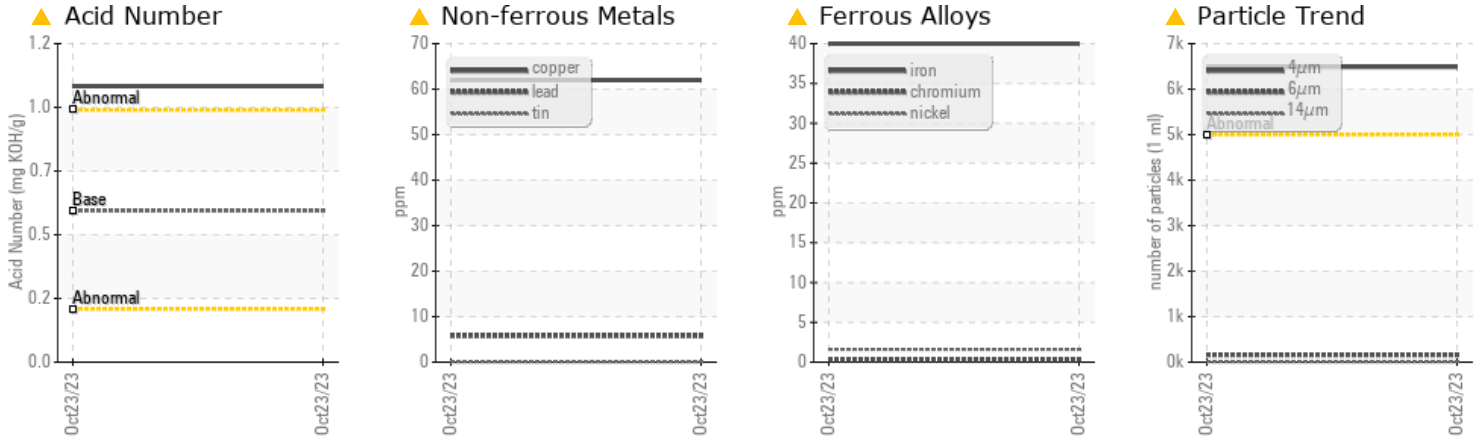
Sample Rating Trend

DEGRADATION

Area  
**Signature Alum - A02500**  
 Machine Id  
**A2310132**  
 Component  
**Hydraulic System**  
 Fluid  
**AW HYDRAULIC OIL ISO 68 (--- GAL)**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

This is a baseline read-out on the submitted sample.

## PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	---	---
Iron	ppm	ASTM D5185(m)	>20	▲ 40	---	---
Copper	ppm	ASTM D5185(m)	>20	▲ 62	---	---
Particles >4µm		ASTM D7647	>5000	▲ 6489	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 20/14/11	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	▲ 1.04	---	---

Customer Id: CHECOB  
 Sample No.: E30000586  
 Lab Number: 02591391  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Tatiana Sorkina +1 (800)263-3939  
[tsorkina@e360s.ca](mailto:tsorkina@e360s.ca)

To change component or sample information:  
 Gloria Gonzalez +1 (289)291-4643 x4643  
[gloria.gonzalez@wearcheck.com](mailto:gloria.gonzalez@wearcheck.com)

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend



**DEGRADATION**



Area  
**Signature Alum - A02500**  
 Machine Id  
**A2310132**  
 Component  
**Hydraulic System**  
 Fluid  
**AW HYDRAULIC OIL ISO 68 (--- GAL)**

## DIAGNOSIS

- ▲ **Recommendation**  
This is a baseline read-out on the submitted sample.
- ▲ **Wear**  
Copper and iron ppm levels are noted.
- ▲ **Contamination**  
Particles >4µm and oil cleanliness are notably high.
- ▲ **Fluid Condition**  
Acid Number (AN) is notably high.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Batch #	Client Info		<b>2023 10 0180</b>	---	---
Machine ID	Client Info		<b>A2310132</b>	---	---
Department	Client Info		<b>Production</b>	---	---
Sample From	Client Info		<b>Machine</b>	---	---
Production Stage	Client Info		<b>Final</b>	---	---
Sent to WC	Client Info		<b>10/23/2023</b>	---	---
Sample Number	Client Info		<b>E30000586</b>	---	---
Sample Date	Client Info		<b>23 Oct 2023</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>ATTENTION</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>0</b>	---	---
Iron	ppm	ASTM D5185(m) >20	▲ <b>40</b>	---	---
Chromium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m) >20	<b>2</b>	---	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185(m) >20	<b>14</b>	---	---
Lead	ppm	ASTM D5185(m) >20	<b>6</b>	---	---
Copper	ppm	ASTM D5185(m) >20	▲ <b>62</b>	---	---
Tin	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Antimony	ppm	ASTM D5185(m)	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	---	---

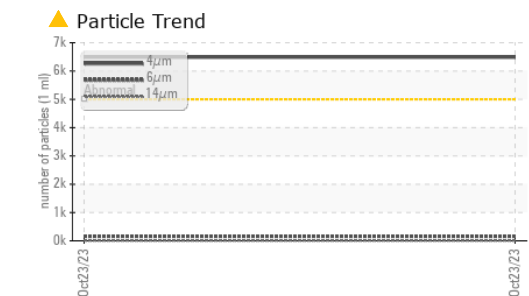
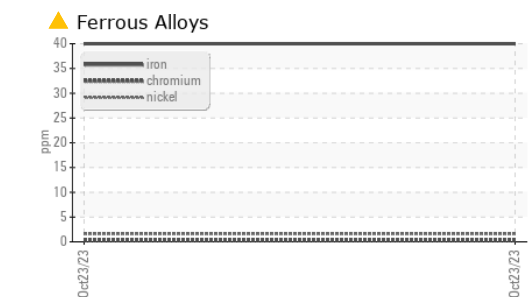
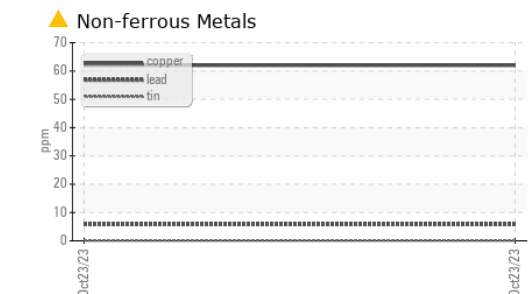
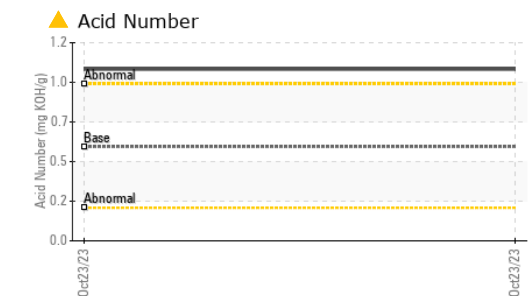
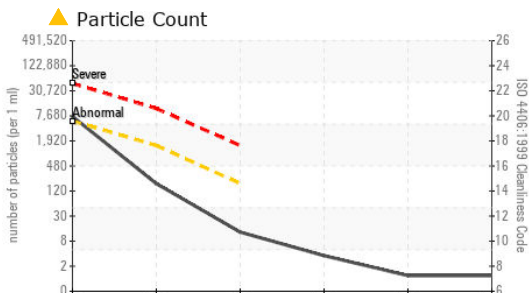
## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 5	<b>&lt;1</b>	---	---
Barium	ppm	ASTM D5185(m) 5	<b>2</b>	---	---
Molybdenum	ppm	ASTM D5185(m) 5	<b>0</b>	---	---
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185(m) 25	<b>40</b>	---	---
Calcium	ppm	ASTM D5185(m) 200	<b>114</b>	---	---
Phosphorus	ppm	ASTM D5185(m) 300	<b>615</b>	---	---
Zinc	ppm	ASTM D5185(m) 370	<b>538</b>	---	---
Sulfur	ppm	ASTM D5185(m) 2500	<b>2004</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	<b>4</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>4</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Water	%	ASTM D6304* >0.05	<b>0.001</b>	---	---
ppm Water	ppm	ASTM D6304* >500	<b>11.0</b>	---	---

# OIL ANALYSIS REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 6489	---	---
Particles >6µm	ASTM D7647	>1300	159	---	---
Particles >14µm	ASTM D7647	>160	11	---	---
Particles >21µm	ASTM D7647	>40	3	---	---
Particles >38µm	ASTM D7647	>10	1	---	---
Particles >71µm	ASTM D7647	>3	1	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 20/14/11	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	▲ 1.04	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
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*	>0.05	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	68	64.5	---
Visc @ 100°C	cSt	ASTM D7279(m)	8.6	9	---
Viscosity Index (VI)	Scale	ASTM D2270*	96	115	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : E30000586 **Received** : 24 Oct 2023  
**Lab Number** : 02591391 **Diagnosed** : 30 Oct 2023  
**Unique Number** : 5668470 **Diagnostician** : Tatiana Sorkina  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PQ, TAN Man, VI )

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To discuss this sample report, contact Customer Service at 1-905-372-2251.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.