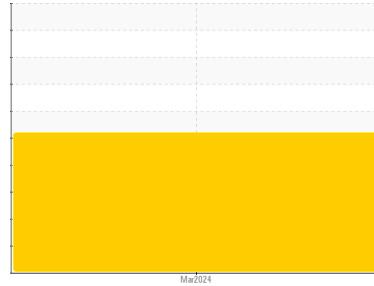


# PROBLEM SUMMARY

Area  
**CMI - C13620**  
 Machine Id  
**A2403078**

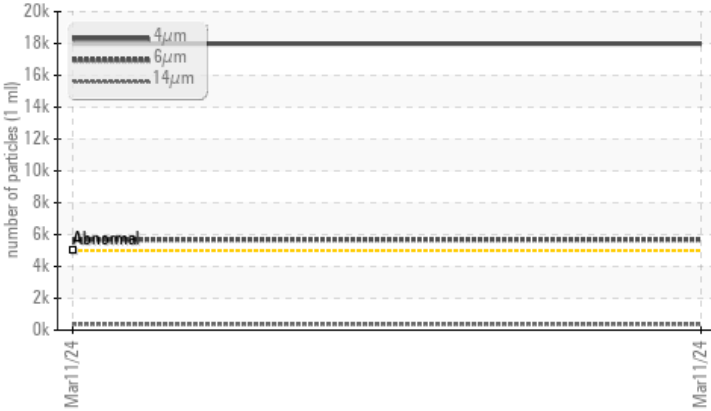
Component  
**Hydraulic System**  
 Fluid  
**AW HYDRAULIC OIL ISO 46 (--- GAL)**

Sample Rating Trend

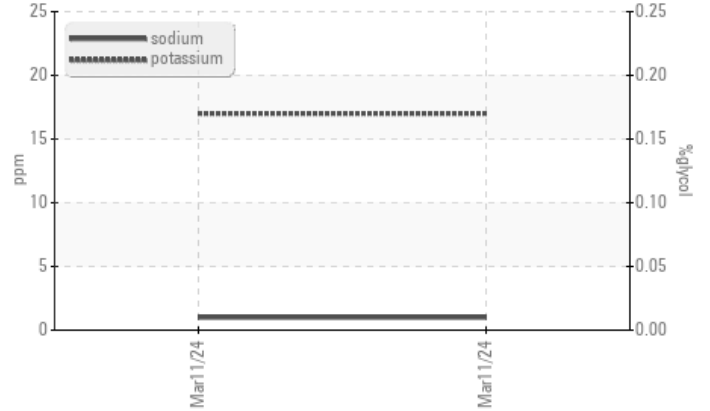


## COMPONENT CONDITION SUMMARY

▲ Particle Trend



● Glycol Contamination



## RECOMMENDATION

The sample submitted is 8 times dirtier than the ISO dirt count recommendation of 19/16/14.

## PROBLEMATIC TEST RESULTS

Sample Status			<b>SEVERE</b>	---	---
Particles >4µm	ASTM D7647	>5000	▲ <b>17984</b>	---	---
Particles >6µm	ASTM D7647	>640	▲ <b>5686</b>	---	---
Particles >14µm	ASTM D7647	>160	▲ <b>371</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16/14	▲ <b>21/20/16</b>	---	---

Customer Id: CHECOB  
 Sample No.: E30001585  
 Lab Number: 02621987  
 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

ISO



Area  
**CMI - C13620**  
Machine Id  
**A2403078**

Component  
**Hydraulic System**  
Fluid  
**AW HYDRAULIC OIL ISO 46 (--- GAL)**



## DIAGNOSIS

### ▲ Recommendation

The sample submitted is 8 times dirtier than the ISO dirt count recommendation of 19/16/14.

### ▲ Contamination

Oil Cleanliness are abnormally high. Particles >6µm are abnormally high. Potassium ppm levels are notably high. Particles >14µm are notably high. Particles >4µm are notably high.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Batch #	Client Info		<b>Mobile</b>	---	---
Machine ID	Client Info		<b>Tote #1</b>	---	---
Department	Client Info		<b>Production</b>	---	---
Sample From	Client Info		<b>Machine</b>	---	---
Production Stage	Client Info		<b>Initial</b>	---	---
Sent to WC	Client Info		<b>03/12/2024</b>	---	---
Sample Number	Client Info		<b>E30001585</b>	---	---
Sample Date	Client Info		<b>11 Mar 2024</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>SEVERE</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Chromium	ppm	ASTM D5185(m) >20	<b>0</b>	---	---
Nickel	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185(m) >20	<b>0</b>	---	---
Copper	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185(m) >20	<b>0</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>	---	---

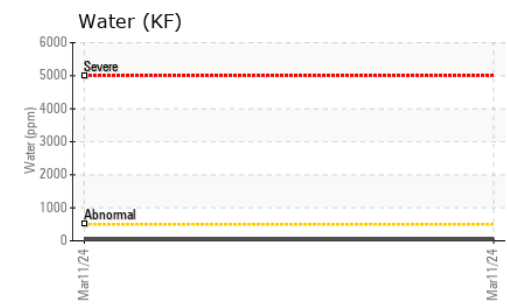
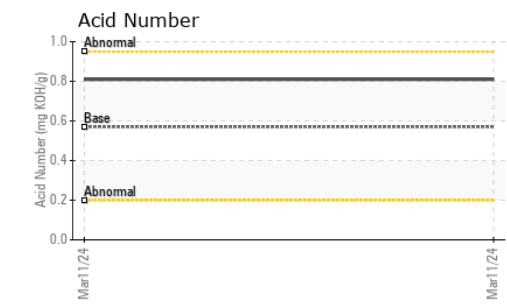
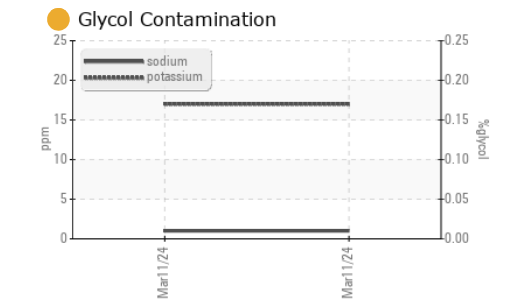
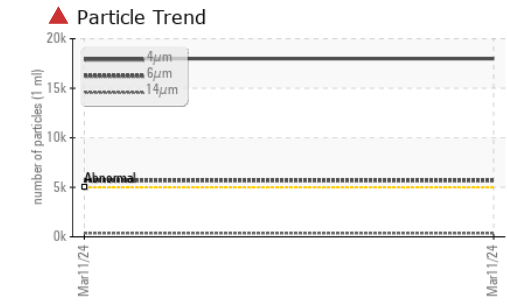
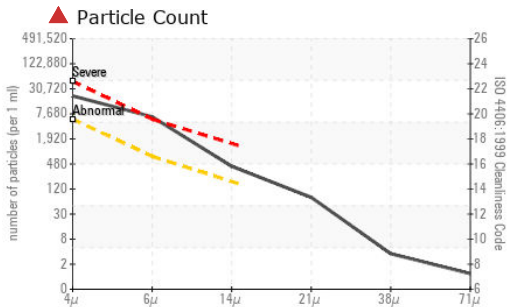
## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 5	<b>0</b>	---	---
Barium	ppm	ASTM D5185(m) 5	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m) 5	<b>0</b>	---	---
Manganese	ppm	ASTM D5185(m)	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m) 25	<b>1</b>	---	---
Calcium	ppm	ASTM D5185(m) 200	<b>106</b>	---	---
Phosphorus	ppm	ASTM D5185(m) 300	<b>668</b>	---	---
Zinc	ppm	ASTM D5185(m) 370	<b>827</b>	---	---
Sulfur	ppm	ASTM D5185(m) 2500	<b>1591</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>1</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>17</b>	---	---
Water	%	ASTM D6304* >0.05	<b>0.004</b>	---	---
ppm Water	ppm	ASTM D6304* >500	<b>44</b>	---	---

# OIL ANALYSIS REPORT



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : E30001585 **Received** : 14 Mar 2024  
**Lab Number** : **02621987** **Tested** : 15 Mar 2024  
**Unique Number** : 5747106 **Diagnosed** : 15 Mar 2024 - Tatiana Sorkina  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, VI )

**Environmental 360 Solutions Ltd.**  
 640 Victoria Street  
 Cobourg, ON  
 CA K9A 5H5  
 Contact: Tatiana Sorkina  
 tsorkina@e360s.ca  
 T: (800)263-3939  
 F: (905)373-4950

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.

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 17984	---	---
Particles >6µm	ASTM D7647	>640	▲ 5686	---	---
Particles >14µm	ASTM D7647	>160	▲ 371	---	---
Particles >21µm	ASTM D7647	>40	● 67	---	---
Particles >38µm	ASTM D7647	>10	3	---	---
Particles >71µm	ASTM D7647	>3	1	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16/14	▲ 21/20/16	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.81	---	---

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)	46	46.6	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	6.7	9.3	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	97	187	---	---

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