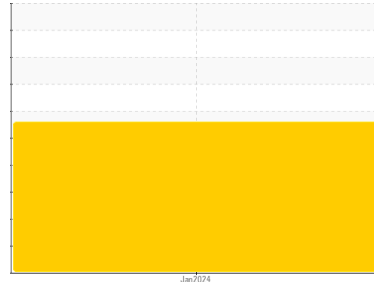




# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Area  
**Mako Plastics - 888067**  
 Machine Id  
**AG234**  
 Component  
**Hydraulic System**  
 Fluid  
**AW HYDRAULIC OIL ISO 46 (--- LTR)**

## DIAGNOSIS

### ▲ Recommendation

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

### Wear

{not applicable}

### ▲ Contamination

ppm Water and water and water contamination levels are abnormal. Particles >4µm are abnormally high. Particles >6µm and oil cleanliness are abnormally high.

### ▲ Fluid Condition

Visc @ 100°C is abnormally low.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Machine ID	Client Info		<b>Tote 2</b>	---	---
Department	Client Info		<b>Sales</b>	---	---
Sample From	Client Info		<b>Tote</b>	---	---
Production Stage	Client Info		<b>Initial</b>	---	---
Sent to WC	Client Info		<b>01/15/2024</b>	---	---
Sample Number	Client Info		<b>E30001148</b>	---	---
Sample Date	Client Info		<b>11 Jan 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>ABNORMAL</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >20	<b>5</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>2</b>	---	---
Lead	ppm	ASTM D5185(m) >20	<b>4</b>	---	---
Copper	ppm	ASTM D5185(m) >20	<b>9</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>	---	---

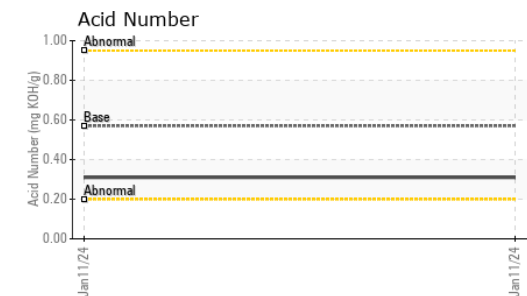
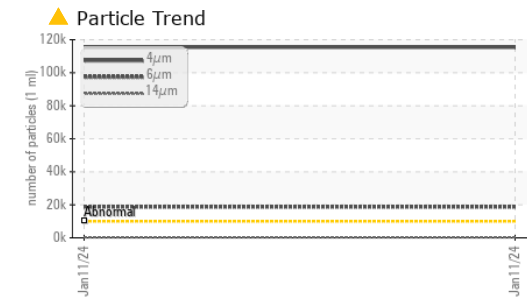
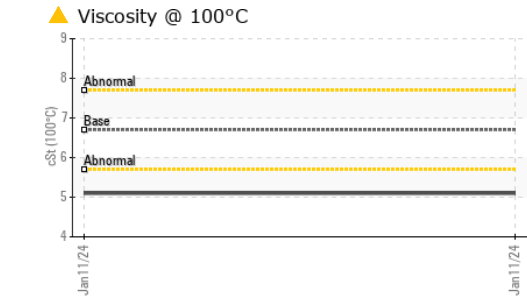
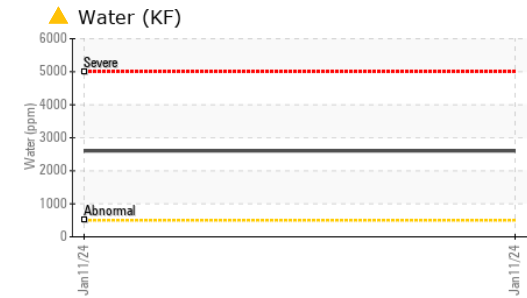
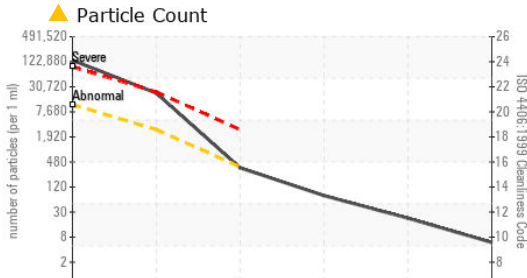
## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 5	<b>1</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>2</b>	---	---
Calcium	ppm	ASTM D5185(m) 200	<b>43</b>	---	---
Phosphorus	ppm	ASTM D5185(m) 300	<b>331</b>	---	---
Zinc	ppm	ASTM D5185(m) 370	<b>343</b>	---	---
Sulfur	ppm	ASTM D5185(m) 2500	<b>1061</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	<b>9</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>1</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>1</b>	---	---
Water	%	ASTM D6304* >0.05	▲ <b>0.260</b>	---	---
ppm Water	ppm	ASTM D6304* >500	▲ <b>2603</b>	---	---

# OIL ANALYSIS REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ <b>115417</b>	---	---
Particles >6µm	ASTM D7647	>2500	▲ <b>18792</b>	---	---
Particles >14µm	ASTM D7647	>320	<b>305</b>	---	---
Particles >21µm	ASTM D7647	>80	<b>66</b>	---	---
Particles >38µm	ASTM D7647	>20	<b>19</b>	---	---
Particles >71µm	ASTM D7647	>4	<b>5</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ <b>24/21/15</b>	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*	0.57	<b>0.31</b>	---	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar Visual*	NONE	<b>NONE</b>	---	---
Precipitate	scalar Visual*	NONE	<b>NONE</b>	---	---
Silt	scalar Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar Visual*	NORML	▲ <b>WGOIL</b>	---	---
Odor	scalar Visual*	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar Visual*	>0.05	<b>.5%</b>	---	---
Free Water	scalar Visual*		▲ <b>5%</b>	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D7279(m)	46	<b>43.5</b>	---	---
Visc @ 100°C	cSt ASTM D7279(m)	6.7	▲ <b>5.1</b>	---	---

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



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : E30001148 **Received** : 17 Jan 2024  
**Lab Number** : **02609402** **Diagnosed** : 19 Jan 2024  
**Unique Number** : 5710488 **Diagnostician** : 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.