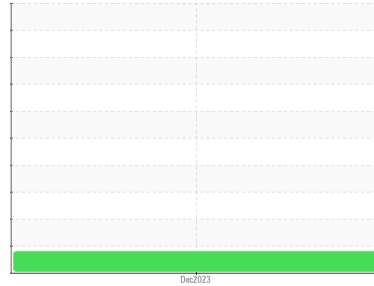




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**JZ Machining Ltd - 888066**  
 Machine Id  
**AM972**  
 Component  
**Hydraulic System**  
 Fluid  
**DEEPCUT GDO (--- LTR)**

## DIAGNOSIS

### ▲ Recommendation

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

### Wear

Aluminum and iron ppm levels are noted.

### ▲ Contamination

Particles >4µm and oil cleanliness are abnormally high.

### Fluid Condition

{not applicable}

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Machine ID	Client Info		<b>DRILL</b>	---	---
Department	Client Info		<b>Sales</b>	---	---
Sample From	Client Info		<b>Machine</b>	---	---
Production Stage	Client Info		<b>Initial</b>	---	---
Sent to WC	Client Info		<b>01/04/2024</b>	---	---
Sample Number	Client Info		<b>E30001106</b>	---	---
Sample Date	Client Info		<b>21 Dec 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>ABNORMAL</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>20	<b>49</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</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>19</b>	---	---
Lead	ppm	ASTM D5185(m)	>20	<b>0</b>	---	---
Copper	ppm	ASTM D5185(m)	>20	<b>2</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>	---	---

## SULFUR CONTENT

	method	limit/base	current	history1	history2	
Total Sulfur	%	ASTM D1552		<b>0.94</b>	---	---
Total Chlorine	%	ASTM D808		<b>0.90</b>	---	---
Active Sulfur	%	ASTM D1662		<b>0.20</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<b>1</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>3</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>2</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>21</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>33</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>25</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>11502</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

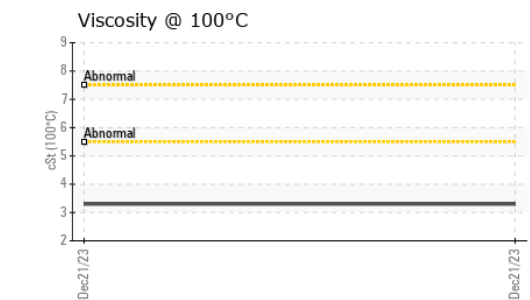
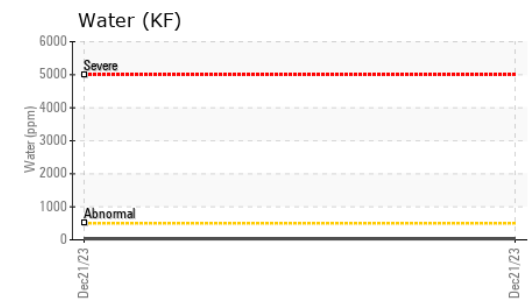
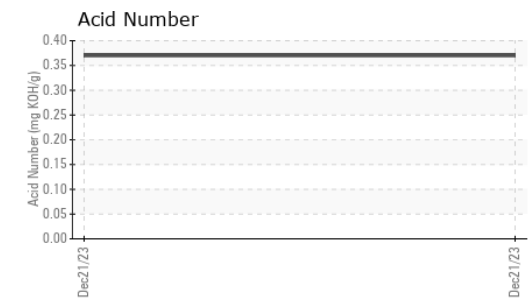
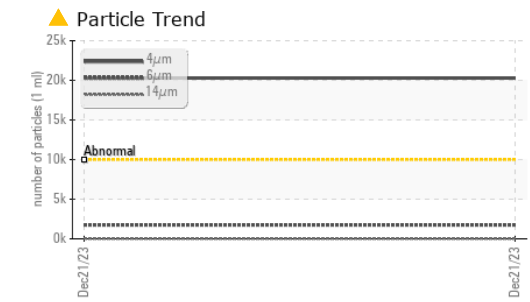
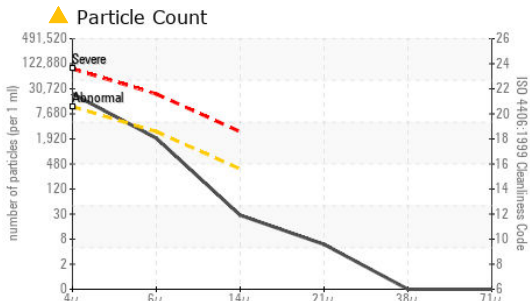
## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>15	<b>1</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>1</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	---	---
Water	%	ASTM D6304*	>0.05	<b>0.003</b>	---	---
ppm Water	ppm	ASTM D6304*	>500	<b>33</b>	---	---

Particle Filter (Magn: 100 x)



# OIL ANALYSIS REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ 20292	---	---
Particles >6µm	ASTM D7647	>2500	1750	---	---
Particles >14µm	ASTM D7647	>320	25	---	---
Particles >21µm	ASTM D7647	>80	5	---	---
Particles >38µm	ASTM D7647	>20	0	---	---
Particles >71µm	ASTM D7647	>4	0	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 22/18/12	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.37	---	---

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)	14.0	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	3.3	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	104	---	---

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



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : E30001106 **Received** : 08 Jan 2024  
**Lab Number** : 02607046 **Diagnosed** : 15 Jan 2024  
**Unique Number** : 5708132 **Diagnostician** : Tatiana Sorkina  
**Test Package** : IND 2 ( Additional Tests: Bottom, BottomAnalysis, Chlorine-Total, FilterPatch, KF, KV100, PrtFilter,

**Environmental 360 Solutions Ltd.**  
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 Cobourg, ON  
 CA K9A 5H5  
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 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.